

ANNUAL REPORT
OF THE
PUBLIC WORKS DEPARTMENT

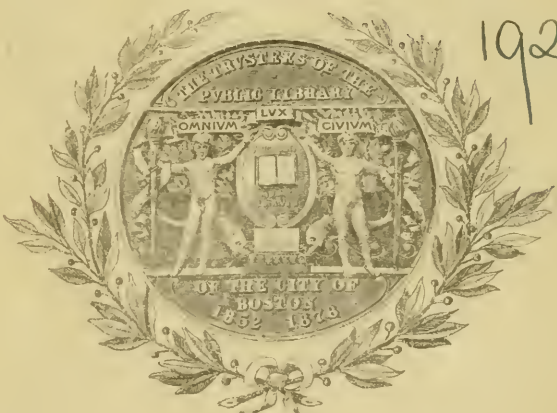


OF THE
CITY OF BOSTON

1921

No 6355.53

1921



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Public Works Department

ANNUAL REPORT
OF THE
PUBLIC WORKS DEPARTMENT
FOR THE
YEAR 1921



COMPLIMENTS OF

JOSEPH A. ROURKE,

Commissioner of Public Works

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ANNUAL REPORT

OF THE

PUBLIC WORKS DEPARTMENT

FOR THE

YEAR 1921



CITY OF BOSTON
PRINTING DEPARTMENT
1922

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Public Works Department
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ALL DIVISIONS

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ACCOUNTS CONTRACTS

CEMENT TESTING
BLUE PRINTING

BRIDGE AND FERRY DIVISION
Division Engineer
AND
OFFICE FORCE

ENGINEER OF CONSTRUCTION

ENGINEERING FORCE ON CONSTRUCTION

INSPECTORS

CONTRACT WORK

BRIDGE SERVICE SUPERVISOR

DRAW TENDERS AND ASSISTANTS BOSTON BRIDGES

MECHANICS YARD AND STABLE FORCES

BOSTON AND CAMBRIDGE BRIDGES DRAW TENDERS AND ASSISTANTS

DESIGNING ENGINEER AND ENGINEER OF SPECIAL WORK

ENGINEERING FORCE ON DESIGN

FERRY SERVICE GENERAL FOREMAN

CASHIER

NORTH FERRY TOLLMEN AND GATEMEN SEVEN BOAT CREWS

SOUTH FERRY TOLLMEN AND GATEMEN FIVE BOAT CREWS

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Division Engineer
AND
OFFICE FORCE

LIGHTING SERVICE

SUPERVISOR OF PERMITS AND FORCE

ASSISTANT ENGINEER AND FORCE DESIGNS AND ESTIMATES

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CONSTRUCTION ENGINEERING FORCE

CHIEF INSPECTOR AND FORCE

CONTRACT WORK

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Division Engineer

ENGINEER IN CHARGE SEWER SERVICE AND OFFICE FORCE

DISTRICT ENGINEERS AND ENGINEERING FORCES

DISTRICT FOREMEN AND FORCES

GENERAL FOREMAN

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STREET OILING DISTRICTS UNDER INSPECTORS

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REVENUE INSPECTION AND CLERICAL FORCE

METER BRANCH

WASTE INSPECTION

ORGANIZATION
PUBLIC WORKS DEPARTMENT
1921

ANNUAL REPORT
OF THE
PUBLIC WORKS DEPARTMENT
FOR THE
YEAR ENDING JANUARY 31, 1922.

BOSTON, February 1, 1922.

HON. ANDREW J. PETERS,
Mayor of the City of Boston:

SIR,—In compliance with Revised Ordinances the annual report of the operations and expenses of the Public Works Department for the year ending January 31, 1922, is respectfully submitted. The Public Works Department, created by Ordinances 1910, chapter 9, now chapter 28 of the Revised Ordinances of 1914, was formed by consolidating the Engineering, Water and Street Departments.

ORGANIZATION.

The department is composed of five main divisions, viz.:

Central Office.—The Central Office is composed of the accounting force of the entire department under the charge of the secretary and chief clerk.

Bridge and Ferry Division.—This division, under a division engineer, has the charge and care of all bridges used as highways which are in whole, or in part, under

the control of the city; the care and management of the ferries owned by the city, including boats, slips, drops and buildings.

NOTE.—The Boston and Cambridge Division, so called, is not strictly speaking a division of the Public Works Department, as this work is in charge of a commission of two, one member appointed by the Mayor of Boston and the other by the Mayor of Cambridge, under the provisions of chapter 412 of the Acts of 1904; but because of the fact that the present Commissioner of Public Works is the Boston member of this commission and also because one half of the expense of this commission is defrayed by the Bridge Service, it is in this report treated as a division of this department.

Highway Division.—This division, under a division engineer, has the care of the construction, reconstruction and maintenance of roadways and sidewalks; the care of lamps and the lighting of streets, parks and alleys.

Sewer and Sanitary Division.—This division, under a division engineer, has charge of the construction of sewers, catch-basins and waterways; the collection of and removal of ashes, garbage, refuse, street cleaning and the oiling and watering of streets.

Water Division.—This division, under a division engineer, has the care of water pipes, installation of meters, water service, laying and relaying of water mains and the high pressure fire service.

REVIEW.

A brief summary of the principal activities of the Public Works Department during the year ending January 31, 1922, follows:

BRIDGE SERVICE.

A new steel deck girder bridge, encased in concrete, was constructed in Ashland street, West Roxbury, over the New York, New Haven & Hartford Railroad.

A new steel bridge, encased in concrete, was constructed on Clarendon street, over the New York, New Haven & Hartford and Boston & Albany Railroads.

A new bridge of reinforced concrete has been constructed on Hyde Park avenue, over Mother brook, Hyde Park.

A new footbridge has been built in the Public Garden, for the Park Department, under the supervision and direction of this department.

A section of the Dover Street Bridge on the Boston side, which had been destroyed by fire last August, has been entirely reconstructed, the work being done by the day labor force of the Boston Transit Department.

Appropriations have been provided for the construction of a new bascule bridge between Boston and Chelsea in place of the existing temporary pile bridge which was constructed about nine years ago.

The bridge over the Boston & Albany Railroad at Cambridge street, Allston, will be rebuilt during 1922.

FERRY SERVICE.

Two new steel ferryboats, the "Lieutenant Flaherty" and the "Ralph J. Palumbo," have been built and are now in commission. They have been equipped with special pumps and nozzles for assisting the Fire Department in the event of waterfront fires.

The ferryboat "Noddle Island" had its machinery completely overhauled and repaired and a new superstructure built providing for four lines of roadway traffic.

As a result of the large appropriation you have authorized for the rehabilitation of the Ferry Service, we now have seven boats with a teaming capacity of more than one hundred per cent of that provided heretofore.

Two old ferryboats, the "D. D. Kelly" and "General Hancock," which were unfit for further service, have been sold.

Designs have been completed, and we are now ready to advertise for proposals for the reconstruction of two ferry entrances providing for two lines of traffic entering and leaving the boats, in place of the existing roadway which permits only a single line of traffic with the consequent delays caused thereby.

Engineering parties from this department have been loaned to the Institutions, Fire, Hospital and Public Buildings Department, and an appreciable saving in the cost of engineering work has been accomplished.

A new wall was constructed along the line of the Roxbury canal where the old bulkhead and walls had collapsed in the rear of the Paving, Sanitary, Sewer and Water yards and the City Hospital, and the canal dredged to allow larger barges to deliver coal to the hospital at a saving of approximately \$1 per ton per year on coal for the Hospital Department.

PAVING SERVICE.

In the Highway Division we have continued your policy of reconstructing the main traffic arteries to the suburban sections of the city, as well as the heavy traffic business streets in the city proper. Among the more important highways are:

Chelsea street, Charlestown, widening.

Chelsea street, from Maverick square to Day square, East Boston.

Dorchester street, from Broadway to Eighth street, South Boston.

Dorchester avenue, from Fields corner to Peabody square, Dorchester.

Morton street, from Harvard to Canterbury street, Dorchester.

Washington street, from Roslindale square to West Roxbury parkway, West Roxbury.

Walnut avenue and Sigourney street, from Columbus avenue to Glen road, Roxbury.

Columbus avenue, from Roxbury Crossing to Seaver street, Roxbury.

Centre street, from Columbus avenue to Green street, Jamaica Plain.

Green street, from Centre to Call streets, Jamaica Plain.

Centre street, from Allandale street to Spring street, West Roxbury.

Beech street, from Centre street to Poplar street, West Roxbury.

Portland street, from Hanover to Causeway streets, city proper.

Merrimac street, from Haymarket square to Portland street, city proper.

Friend street, from Union to Causeway streets, city proper.

Richmond street, from Hanover street to Atlantic avenue, city proper.

Market street, Brighton, from Washington street to Western avenue.

Cambridge street, from Charles river to the Boston & Albany Railroad bridge, Brighton.

Hyde Park avenue from Clarendon Hills to Cleary square, Hyde Park. River street, from the railroad bridge to Fairmount avenue, Hyde Park. Charles street, from Beacon to Cambridge streets, city proper — street widened to 80 feet and permanently paved.

Chestnut Hill avenue, from Beacon street to Commonwealth avenue — widened to 80 feet. In this connection the area between Beacon street and the Brookline line was completed with a reserved area providing a 65-foot roadway around Cleveland circle.

Poplar street, from Roslindale to Hyde Park line.

The widening of North Beacon street, from Market street to the Watertown line, Brighton.

Construction of Stuart street, from Huntington avenue to Washington street, city proper.

Construction of a new roadway through Franklin Park, from Morton street to the Arborway.

SEWER SERVICE.

Approximately 22,000 linear feet of sewers and surface drains have been constructed, the most important of which are:

Roslindale branch of Stony brook.

Muddy river conduit in Brookline avenue, Roxbury.

Rebuilding of the old wooden sewer in Chatham street, city proper.

Extending the Lubec street overflow in East Boston.

Necessary sewers for the widening of Chelsea street, Charlestown.

Construction of sanitary sewer in Parker avenue and North Harvard street, Brighton.

Extension of the Farragut road overflow, South Boston.

Construction of a sewer for the relief of the City Point section of South Boston, where floodings had occurred for years.

Pumping engine No. 5 at the Calf Pasture pumping station has been completely overhauled at an expense of approximately \$100,000.

STREET CLEANING SERVICE.

A new Elgin motor-driven pick-up machine has been purchased; and by the use of car sprinklers and motor-driven flushers a more sanitary method of cleaning streets has been made possible, particularly in the downtown section and on the main arteries.

SANITARY SERVICE.

The City Council awarded to Coleman Brothers, Inc., the lowest bidder, after public advertisement, a contract

for the disposal of ashes, garbage, and refuse for a period of ten years commencing July 1, 1922, at a total cost of \$3,795,000.

WATER DIVISION.

Approximately 50,000 linear feet of water pipe were relaid throughout the city. The mains taken out were small and nearly filled up. Their replacement with larger mains has made a notable improvement in the supply of water for household and fire purposes.

About 2,500 feet of 24-inch pipe, laid in 1885, in Perkins street, West Roxbury, were relaid with 36-inch pipe. This work is the first step in a plan to afford an adequate second high service supply from the Metropolitan mains.

The 36-inch high service main in Harrison avenue has been completed over the railroad bridge near Broadway, greatly improving the high service supply to the high value district of the city proper.

Six and one-half miles of old mains were cleaned in East Boston and Brighton, the carrying capacity of which had been greatly reduced by filling up. Their restoration to the original size of the pipe provides a great improvement in the supply, particularly for fire protection.

In cooperation with the United States Government, a much needed improvement has been made in the fire-fighting facilities at the United States Public Health Service Hospital in West Roxbury.

Pitometer waste surveys have been completed of the South Boston distribution system, a portion of the South End system, the high service system in the city proper, Roxbury and the greater portion of Dorchester, and a portion of the low service system of the city proper. Work is now in progress on a section of the low service system of Roxbury and the Back Bay. A large number of leaks have been located and stopped, with an appreciable decrease in the cost to the city for consumption.

The work of installing meters, in compliance with the statute, has been carried on. Approximately 3,000 new water meters were installed during the year.

HIGH PRESSURE FIRE SERVICE.

The two pumping stations of the High Pressure Fire Service have been completed and were placed in opera-

tion last November. One in the Edison station on Atlantic avenue, opposite Pearl street, is equipped with two electrically-driven, 4-stage centrifugal pumps, each of a capacity of 3,000 gallons per minute, at 300 pounds pressure. The equipment in the Lincoln Power Station of the Boston Elevated Railway Company consists of two steam turbine-driven, 3-stage centrifugal pumps, each of a capacity of 3,000 gallons per minute, at 300 pounds pressure.

During the year over 4,000 linear feet of 12-inch, 16-inch and 20-inch high pressure pipe were laid in extending the system and twenty-one new hydrants were established.

In submitting the final report of my service as Commissioner of Public Works, I beg leave to express to your Honor my deep appreciation of the constant support and assistance which you have so generously and whole-heartedly given to me.

Your administration covered the most trying period in the history of the city, when the Federal requirements during the World War necessitated the abandonment of important activities of this department in particular. Nevertheless a radical improvement has been made under your direction in every branch of this department. Practically every official and employee ranking below the division heads has received a generous increase in salary or wages. Unnecessary positions have been abolished without entailing hardship through the discharge of superannuated employees, and invariably promotions have been made on merit with due regard for seniority and with no consideration on account of political preferment. In my opinion the morale of the department has greatly benefited by your courteous and generous treatment of the employees.

I desire also to express my appreciation of the loyal support of the great majority of the supervisory officials and employees who withstood the temptations for greatly increased compensation in other fields. Without their loyalty, the various activities of this department would have been seriously hampered.

Respectfully submitted,

THOMAS F. SULLIVAN,
Commissioner of Public Works.

APPROPRIATIONS.

The money assigned for the work of the Public Works Department during the year February 1, 1921, to January 1, 1922, was made available from the following sources:

First.—Maintenance appropriation, derived from the income of the city raised by taxation. In December, 1920, the department estimates of the money necessary for the different services were submitted to the Mayor. The estimates were made in segregated form to the Mayor, who made such allowance for each item in the budget as he considered necessary and submitted them to the City Council. The total maintenance appropriations as passed by the City Council and approved by the Mayor are shown below. On another page will be found the total expenditures by each service for each item in the segregated budget:

Central Office	\$88,634 20
Bridge Service	432,769 22
Ferry Service	501,856 57
Lighting Service	727,688 20
Paving Service	1,278,474 40
Sanitary Service	1,507,256 63
Street Cleaning and Oiling Service	954,656 80
Sewer Service	607,430 67
Water Service	1,286,239 46
Total	<u>\$7,385,006 15</u>

* BOSTON AND CAMBRIDGE BRIDGES.

Second.—Loan inside the debt limit for building new streets assessable on abutting property authorized by chapter 393 of the Acts of 1906. (Paving Service.)

Amount expended during the year \$761,550 39

Third.—Loan inside the debt limit under the provisions of chapter 426 of the Acts of 1897, as amended by chapter 204 of the Acts of 1908, from which all sewage works are now built. (Sewerage Works—Sewer Service.)

Balance February 1, 1921	\$295,615 71
Loan	1,000,000 00
Total	<u>\$1,295,615 71</u>
Expended during the year	974,138 27
Balance January 31, 1922	<u>\$321,477 44</u>

* Paid by Bridge Service and included in that appropriation.

Fourth.—High Pressure Fire Service. (Water Service.)

Balance February 1, 1921	\$279,019 38
Loan inside debt limit	120,000 00
	<hr/>
	\$399,019 38
Expended during the year	322,824 41
	<hr/>
Balance January 31, 1922	<u>\$76,194 97</u>

Fifth.—Chelsea Bridge South. (Bridge Service.)

Balance February 1, 1921	\$14,867 54
Loan inside debt limit	* 600,000 00
	<hr/>
	\$614,867 54
Expended during the year	3,142 12
	<hr/>
Balance January 31, 1922	<u>\$611,725 42</u>

Sixth.—Dover Street Bridge, rebuilding. (Bridge Service.)

Loan inside the debt limit	\$40,000 00
Expended during the year	17,317 54
	<hr/>
Balance January 31, 1922	<u>\$22,682 46</u>

Seventh.—Hyde Park Avenue Bridge. (Bridge Service.)

Loan inside debt limit	\$20,000 00
Expended during the year	5,902 04
	<hr/>
	<u>\$14,097 96</u>

Eighth.—North Beacon street, Brighton. (Paving Service.)

Loan inside debt limit	\$125,000 00
Expended during the year	† 28,221 79
	<hr/>
	<u>\$96,778 21</u>

SPECIAL APPROPRIATIONS.

ASHLAND STREET BRIDGE, RECONSTRUCTION. (Bridge Service.)

Balance February 1, 1921	\$63,567 49
Expended during the year	56,274 15
	<hr/>
Unexpended balance January 31, 1922	<u>\$7,293 34</u>

* Authorized but not issued, \$600,000.

† Includes payment made by Board of Street Commissioners.

BRIDGE REPAIRS, ETC. (Bridge Service.)

Balance February 1, 1921	\$28,753 79
Appropriation from taxes	90,000 00
Revenue	12,548 70

Total	\$131,302 49
Expended during the year	101,934 88

Unexpended balance January 31, 1922 . \$29,367 61

BROOKLINE AVENUE BRIDGE. (Bridge Service.)

Balance February 1, 1921	\$713 91
Transferred from power and heating plant, Deer Island	3,946 09

Total	\$4,660 00
Expended during the year	<u>4,660 00</u>

* GRANITE AVENUE BRIDGE. (Bridge Service.)

Appropriation from taxes	\$2,858 56
Expended during the year	2,809 60

Unexpended balance transferred to City Treasury \$48 96

SEA WALL, ETC., ROXBURY CANAL. (Bridge Service.)

Balance February 1, 1921	\$109,492 69
Loan issued	80,000 00

Total	\$189,492 69
Expended during the year	95,040 53

Unexpended balance January 31, 1921 . \$94,452 16

EAST BOSTON FERRY, IMPROVEMENTS, ETC. (Ferry Service.)

Balance February 1, 1921	\$343,399 29
Loan issued (authorized in 1920 but not issued) outside the debt limit	500,000 00

Total	\$843,399 29
Expended during the year	582,783 16

\$260,616 13

FERRYBOAT "NODDLE ISLAND." (Ferry Service.)

Balance February 1, 1921	\$100,323 38
Expended during the year	98,754 21

\$1,569 17

* Maintained jointly by Suffolk County and town of Milton.

FERRYBOATS, REPAIRS, ETC. (Ferry Service.)

Balance February 1, 1921	\$3,359 68
Expended during the year	2,013 25
	<hr/>
	\$1,346 43
	<hr/>

GRANOLITHIC SIDEWALKS. (Paving Service.)

Appropriation from taxes	\$50,000 00
Expended during the year	49,992 82
	<hr/>
Unexpended balance January 31, 1922	\$0 18
	<hr/>

RECONSTRUCTING AND REPAIRING STREETS BY CONTRACT.
(Paving Service.)

Balance February 1, 1921	\$181,749 86
Appropriation from taxes	750,000 00
	<hr/>
Total	\$931,749 86
Expended during the year	880,464 34
	<hr/>
Unexpended balance January 31, 1922	\$51,285 52
	<hr/>

STREET IMPROVEMENTS. (Paving Service.)

Appropriation from taxes	\$290,000 00
Transfer from Paving Service	711 40
	<hr/>
Total	\$290,711 40
Expended during the year	290,711 40
	<hr/>

WASHINGTON STREET, WEST ROXBURY. (Paving Service.)

Appropriation from taxes	\$100,000 00
Expended during the year	63,877 87
	<hr/>
Unexpended balance January 31, 1922	\$36,122 13
	<hr/>

STUART STREET. (Chapter 312, Acts of 1920 and Chapter 407,
Acts of 1921.) (Paving Service.)

Expended during the year	\$1,361 53
	<hr/>

OLD HARBOR IMPROVEMENT. (Sewer Service.)

Balance February 1, 1921	\$33 83
Loan issued (authorized in 1920 but not issued)	90,000 00
	<hr/>
Total	\$90,033 83
Expended during the year	58,852 93
	<hr/>
	\$31,180 90
	<hr/>

**Expenditures Under the Maintenance Appropriation of
From February 1, 1921,**

GROUP AND ITEM.	Central Office.	Bridge.	Ferry.
A. PERSONAL SERVICE AS PER SCHEDULE A:			
1. Permanent employees.....	\$83,608 62	\$313,513 49	\$277,107 56
2. Temporary employees.....		10,526 48	11,563 20
3. Unassigned.....		3,783 79	5,629 17
B. SERVICE OTHER THAN PERSONAL:			
1. Printing and binding.....	994 70		571 62
2. Postage.....	221 04	117 60	4 00
3. Advertising and posting.....		62 65	104 45
4. Transportation of persons.....	120 05	545 54	90 75
5. Cartage and freight.....		1 07	286 69
6. Hire of teams and auto trucks.....		223 50	3,406 67
7. Heat.....			2,350 40
8. Light and power.....		9,816 99	4,735 76
9. Lighting streets, alleys and parks.....			
10. Rent, taxes and water.....		36 74	40 70
11. Insurance.....			
12. Premium on surety bonds.....	6 00		85 00
13. Communication.....	9 85	167 11	284 40
14. Motor vehicle repairs and care.....	579 31	2,128 85	
15. Motorless vehicle repairs.....			256 77
16. Care of horses.....			
17. Care of persons.....			
18. Cleaning.....		13 80	36 00
19. Removal of ashes, dirt and garbage.....			
20. Disposal of ashes, dirt and garbage.....			
21. Removal of snow.....			
22. Medical.....		44 50	28 10
23. Veterinary.....			
24. Blacksmith.....		1,197 91	
25. Examinations.....			
26. Protective and preventive.....			
27. Testing materials and supplies.....			
28. Expert and architect.....			
29. Stenographic, copying and indexing.....	87 66		
30. Religious.....			
31. Extermination of insects.....			
32. Towing.....			490 00
33. Interpreters.....			

the Several Services by Items of the Segregated Budget.
to January 31, 1922.

Lighting.	Paving.	Sanitary.	Street Cleaning.	Sewer.	Water.	Totals.
\$6,123 20	\$792,870 99	\$757,728 16	\$595,344 77	\$324,869 52	\$676,342 12	\$3,827,508 43
.....	3,859 50	11,095 00	.....	4,523 61	.....	41,577 79
.....	15,878 65	9,529 97	28,194 83	8,804 94	15,489 94	87,311 29
.....	.....	1,246 95	.....	108 70	223 49	3,145 46
30 00	500 52	122 44	177 10	247 92	544 70	1,965 32
.....	67 10	78 70	28 00	50 60	158 85	549 75
22 70	1,093 61	511 56	104 41	1,929 62	6,079 15	10,497 39
.....	70 59	11 00	180 34	92 06	144 70	786 45
.....	36,937 46	124,724 17	114,888 42	950 36	234 50	281,365 08
.....	.....	.....	.....	207 62	.....	2,558 02
709,782 44	1,435 20	4,451 90	313 40	5,054 03	2,079 39	737,669 11
.....
.....	3,934 00	1,020 00	1,900 00	931 73	1,399 64	9,262 81
.....
.....	9 00	3 00	.....	.....	12 50	115 50
.....	1,695 44	770 93	559 25	791 90	1,659 68	5,938 56
228 10	6,201 53	1,565 41	2,580 45	1,102 84	2,600 77	16,987 26
.....	571 28	2,318 81	5,905 95	176 61	17 10	9,246 52
.....
.....
.....	152 05	129 10	110 40	69,250 16	29 20	69,720 71
.....	.....	335,791 46	.....	45 50	.....	335,836 96
.....	94 50	144,384 05	218 85	.....	.....	144,697 40
.....	74,756 50	.....	.....	.....	.....	74,756 50
.....	423 15	305 00	94 00	40 00	46 00	980 75
.....	354 00	534 59	264 60	42 00	23 04	1,218 19
.....	1,644 30	36 85	47 94	346 86	.....	3,273 86
.....
.....
.....	.....	.....	.....	.....	1,334 93	1,334 93
.....	.....	2,000 00	.....	500 00	.....	2,500 00
.....	.....	.....	.....	.....	.....	87 66
.....
.....
.....	.....	.....	.....	400 00	.....	890 00
.....

Expenditures Under the Maintenance Appropriation of the

GROUP AND ITEM.	Central Office.	Bridge.	Ferry.
B. SERVICE OTHER THAN PERSONAL:			
34. Jurors.....			
35. Fees, service of venires, etc.....	\$10 00	\$19 68	
36. Boiler inspection.....		23 00	\$20 00
37. Photographic and blueprinting.....			
38. Burial.....			
39. General plant.....	117 40	23,099 96	76,287 10
40. Harness, etc., repairs.....			
41. Horseshoeing and clipping.....			
42. Repair of streets.....			
C. EQUIPMENT:			
1. Apparatus, cable, wire, etc.....			
2. Machinery.....			
3. Electrical.....			
4. Motor vehicles.....	526 71	3,359 07	
5. Motorless vehicles.....			
6. Stable.....			
7. Furniture and fittings.....		2 63	
8. Educational and recreational.....			
9. Office.....		250 00	
10. Library.....			
11. Marine.....			729 77
12. Medical, surgical, laboratory.....			
13. Tools and instruments.....		850 38	2,339 71
14. Live stock.....			
15. Sanitary.....			
16. Wearing apparel.....			299 25
17. General plant.....		232 31	9 00
18.....			
19.....			
D. SUPPLIES:			
1. Office.....	1,600 12	1,674 05	1,407 29
2. Food and ice.....		115 20	61 44
3. Fuel.....		5,267 10	84,705 66
4. Forage and animal.....			
5. Medical, surgical, laboratory.....			
6. Library.....			
7. Veterinary.....			

Several Services by Items of the Segregated Budget.— *Continued.*

Lighting.	Paving.	Sanitary.	Street Cleaning.	Sewer.	Water.	Totals.
\$10 00	\$609 00	\$70 00	\$600 00	\$133 45	\$274 75	\$1,726 88
	60 00			52 00		155 00
3,601 42	10,179 35	3,379 67	5,271 55	18,722 62	59,456 05	196,115 12
	293 30			32 35	25	325 90
	5,929 96	6,757 41	4,873 60	502 05	595 60	18,658 62
	3,193 69			462 51	27,715 59	31,371 79
				17,968 62		17,968 62
					105 25	105 25
495 23	6,553 13	1,733 22	12,079 30	3,155 67	12,354 64	40,256 97
		4,442 60	226 10	155 75		4,824 45
	1,110 50	2,750 55	2,761 14	538 18	33 25	7,193 62
	101 71	68 22	66 81		34 76	274 13
	618 50			168 50	1,297 21	2,334 21
						729 77
	7,545 62	1,987 19	7,673 15	1,671 08	34,374 88	56,442 11
	2,430 00	14,060 00	12,760 00	150 00		29,400 00
	6 35	20 58	109 17	649 27	202 22	1,286 84
1,077 42	217 83		545 62	2,219 50	78 15	4,379 83
169 12	8,246 80	1,940 56	2,038 62	2,451 20	8,962 66	28,490 42
	371 52	119 68	9 99	203 70	58 14	939 67
	15,577 22	5,401 95	887 08	98,328 01	4,738 79	214,905 81
	21,846 27	43,668 61	44,207 04	4,455 40	5,608 55	119,785 87
				11 92		11 92
	276 43	238 70	93 86			608 99

Expenditures Under the Maintenance Appropriation of the

GROUP AND ITEM.	Central Office.	Bridge.	Ferry.
D. SUPPLIES.—Continued.			
8. Laundry, cleaning, toilet.....	\$1 26	\$72 76	\$557 21
9. Educational and recreational.....			
10. Agricultural.....			
11. Motor vehicle.....	425 30	1,668 78	
12. Military.....			
13. Chemicals and disinfectants.....		7 20	182 70
14. Marine.....			
15. Tobacco.....			
16. General plant.....		1,192 00	3,953 44
17.			
18.			
E. MATERIALS:			
1. Building.....		209 75	245 15
2. Highway.....			
3. Bridges.....		34,372 49	
4. Ferries.....			10,623 81
5. Sewer.....			
6. Water.....			
7. Conduits.....			
8. Apparatus.....			
9. Machinery.....		342 41	
10. Electrical.....		500 90	741 22
11. Marine.....			
12. Parks and recreational.....			
13. General plant.....		19 88	
14.			
F. SPECIAL ITEMS:			
1. Land.....			
2. Damages.....			
3. Sinking funds.....			
4. Serial loans.....			
5. Interest.....			
6. Military.....			
7. Pensions and annuities.....		4,401 25	7,602 26
8. State and military aid, soldiers' relief and burials.....			
9. Care of dependents.....			

Expenditures Under the Maintenance Appropriation of the

GROUP AND ITEM.	Central Office.	Bridge.	Ferry.
F. SPECIAL ITEMS.— <i>Concluded.</i>			
10. Mothers' aid.....			
11. Workingmen's compensation.....		\$728 00	
12. Contracts for construction where money is derived from taxes as per Schedule B.....			
13. Industries.....			
G. INCIDENTAL EXPENDITURES TO COVER CONTINGEN- CIES OTHER THAN PERSONAL SERVICE:			
1. Probation officers' expenses.....			
Totals.....	\$88,308 02	\$420,588 82	\$496,836 35

Several Services by Items of the Segregated Budget.— *Concluded.*

Lighting.	Paving.	Sanitary.	Street Cleaning.	Sewer.	Water.	Totals.
	\$5,009 98	\$12,640 60	\$4,858 86	\$2,768 00	\$4,297 72	\$30,303 16
					55,079 92	55,079 92
\$722,091 55	\$1,287,913 15	\$1,536,633 27	\$916,061 41	\$607,043 15	\$1,232,418 76	\$7,307,894 48

**Expenditures Under the Maintenance Appropriation of
From February 1, 1921,**

GROUP AND ITEM.	Central.	Bridge.	Ferry.
1. Commissioner.....	\$9,000 00		
2. Division engineers.....		\$3,750 00	\$1,250 00
3. Engineers in charge.....			
4. Secretary and chief clerk.....	3,988 92		
5. Clerks and stenographers.....	54,661 39	3,506 11	1,123 36
6. Messengers.....			
7. Chief engineer (civil).....			
8. Assistant engineers (civil).....	3,225 00	14,266 33	
9. Draughtsmen.....		7,054 57	
10. Instrumentmen.....		4,575 20	
11. Rodmen.....		2,577 12	
12. Inspectors.....		3,124 18	
13. Foremen.....			
14. Subforemen.....		5,096 50	
15. Investigator.....			
16. Address printer.....			
17. Blueprinters.....	3,988 92		
18. Boys.....	1,055 15		
19. Chauffeurs.....	1,404 00	6,669 00	351 00
20. Cement testers.....	4,291 04		
21. Chief inspectors.....			
22. Chemist and assistant.....			
23. Claim agent.....	1,994 20		
24. Cashiers.....			1,994 20
25. Constable.....			
26. Coalpassers.....			
27. Captains.....			27,791 66
28. Drawtenders and assistants.....	217,004 23		
29. Deckhands.....			30,809 79
30. Engineers (steam).....			27,225 00
31. Electricians.....	1,724 80	1,747 20	
32. Emergency men.....			
33. Firemen (see oilers).....			
34. Feeders.....			
35. Gatemen (ferry).....			21,503 96
36. General foreman.....			2,792 40
37. Janitresses.....			4,980 00

The Several Services by Items of the Segregated Budget.
to January 31, 1922.

Lighting.	Paving.	Sanitary.	Street Cleaning.	Sewer.	Water.	Total.
						\$9,000 00
\$1,250 00	\$3,750 00	\$1,666 67	\$1,666 66	\$1,666 67	\$5,000 00	20,000 00
	750 00			1,745 12	3,500 00	5,995 12
						3,988 92
3,323 20	21,512 05	2,342 75	1,079 40	4,552 36	68,965 82	161,066 44
					1,196 52	1,196 52
	6,044 65			6,197 27	11,621 49	41,354 74
	544 52			4,443 88	3,562 98	15,605 95
	3,821 28			10,490 48	7,359 65	26,246 61
	2,599 91			2,029 69	1,179 24	8,385 96
	36,438 86	63,394 22	59,894 99	34,625 06	46,867 61	244,344 92
	57,963 76	24,911 52	22,370 88	6,670 32	24,813 88	136,730 36
					1,390 50	6,487 00
					2,084 90	2,084 90
						3,988 92
	538 20					1,593 35
1,550 00	5,616 00	3,834 00	6,671 25	7,020 00	14,173 08	47,288 33
						4,291 04
					1,994 20	1,994 20
	337 49					337 49
						1,994 20
						1,994 20
	1,994 20	1,392 36				3,386 56
				11,619 98		11,619 98
						27,791 66
						217,004 23
						30,809 79
	19,567 96			10,874 16	1,560 00	59,227 12
				1,397 20		4,869 20
					17,068 50	17,068 50
		5,194 50	3,978 00			9,172 50
						21,503 96
					4,587 44	7,379 84
						4,980 00

Expenditures Under the Maintenance Appropriation of the

GROUP AND ITEM.	Central.	Bridge.	Ferry.
38. Joiners.....			
39. Laborers, janitors, teamsters, watchmen, stablemen, etc.....		\$11,582 00	\$18,421 30
40. Mechanics.....		27,340 00	23,879 00
41. Masons.....			
42. Meter readers.....			
43. Medical inspectors.....		166 69	83 33
44. Oilers and firemen.....			73,221 50
45. Quartermasters.....			19,370 15
46. Sealers.....			
47. Sewer gatemen, cleaners and flushers.....			
48. Supervisors.....		5,076 76	
49. Storekeepers.....			
50. Superintendent and deputy.....			
51. Stockkeepers.....			1,396 20
52. Telephone operator.....			
53. Tollmen.....			19,167 51
54. Veterinarian.....			
55. Wharfingers.....			
56. Weighers.....			
57. Wharfmen.....			
58. Yardmasters.....			
59. Yardmen.....			
60. Pavers.....			
Permanent.....	\$83,608 62	\$313,513 49	\$277,107 56
Temporary.....		10,526 48	11,573 20
Overtime.....		3,783 79	5,629 17
Other departmental work.....			
Totals.....	\$83,608 62	\$327,823 76	\$294,309 93

Several Services by Items of the Segregated Budget.— *Concluded.*

Lighting.	Paving.	Sanitary.	Street. Cleaning.	Sewer.	Water.	Totals.
.....
.....	\$460,563 73	\$597,136 33	\$495,888 50	\$105,268 22	\$233,059 75	\$1,921,919 83
.....	157,037 75	45,295 74	.....	15,230 50	157,914 13	426,697 12
.....	.....	.....	.....	18,049 40	2,059 20	20,108 60
.....	.....	.....	.....	.....	36,644 27	36,644 27
.....	333 32	1,083 33	749 97	83 33	500 00	2,999 97
.....	6,383 84	.....	.....	58,036 00	2,770 00	140,411 34
.....	.....	.....	.....	.....	.....	19,370 15
.....	.....	.....	.....	.....	2,808 00	2,808 00
.....	.....	.....	.....	16,357 64	.....	16,357 64
.....	2,592 72	1,745 12	1,745 12	.....	1,959 73	13,119 45
.....	.....	.....	.....	.....	1,595 36	1,595 36
.....	.....	.....	.....	3,238 81	6,590 24	9,829 05
.....	.....	1,413 36	.....	.....	1,313 25	4,122 81
.....	.....	.....	.....	.....	988 00	988 00
.....	.....	.....	.....	.....	.....	19,167 51
.....	596 67	887 50	1,300 00	224 99	520 84	3,525 00
.....	.....	4,438 72	.....	.....	.....	4,438 72
.....	1,296 36	2,991 04	.....	.....	.....	4,287 40
.....
.....	.....	.....	.....	.....	1,743 20	1,743 20
.....	2,592 72	.....	.....	4,373 44	5,730 35	12,696 51
.....	.....	.....	.....	765 00	3,120 00	3,885 00
\$6,123 20	\$792,870 99	\$757,728 16	\$595,344 77	\$324,869 52	\$676,342 12	\$3,827,508 43
.....	3,859 50	11,095 00	.....	4,523 61	.....	41,577 79
.....	6,188 01	8,673 09	7,258 29	6,857 08	9,713 02	48,102 45
.....	9,690 64	856 88	20,936 54	1,947 86	5,776 92	39,208 84
\$6,123 20	\$812,609 14	\$778,353 13	\$623,539 60	\$338,198 07	\$691,832 06	\$3,956,397 51

**Financial Statement of the Public Works Department, Maintenance, February 1, 1921,
to January 31, 1922.**

DIVISIONS AND SERVICES.	Appropriations, 1921-22.	Transfers to.	Transfers from.	Total Credits.	Expenditures, 1921-22.	Balances, January 31, 1922.
Central Office.....	\$88,634 20			\$88,634 20	\$88,308 02	\$326 18
Bridge Service.....	432,769 22		\$3,106 95	429,662 27	420,588 82	9,073 45
Ferry Service.....	501,856 57	\$3,106 95		504,963 52	496,836 35	8,127 17
Lighting Service.....	727,688 20		5,596 65	722,091 55	722,091 55	
Paving Service.....	1,278,474 40	11,420 80	711 40	1,289,183 80	1,287,913 15	1,270 65
Sanitary Service.....	1,507,256 63	30,791 35		1,538,047 98	1,536,633 27	1,414 71
Street Cleaning and Oiling Service.....	954,656 80		36,615 50	918,041 30	916,061 41	1,979 89
Sewer Service.....	607,430 67			607,430 67	607,043 15	387 52
Water Service.....	1,286,239 46			1,286,239 46	1,232,418 76	53,820 70
Totals.....	\$7,385,006 15	\$45,319 10	\$46,030 50	\$7,384,294 75	\$7,307,894 48	*\$76,400 27

* Balances transferred to City Treasury.

The expenditures under the several appropriations (for the
different services) for the year 1921-22 were as follows:

DIVISIONS AND SERVICES.	Current Expenses.	Special Appropriations.	Total Expenditures.	Balances, January 31, 1922.
Central Office.....	\$88,308 02		\$88,308 02	
Bridge Service.....	420,588 82	\$287,080 86	707,669 68	*\$179,618 95
Ferry Service.....	496,836 35	683,550 62	1,180,386 97	263,531 73
Lighting Service.....	722,091 55		722,091 55	
Paving Service.....	1,287,913 15	2,072,266 85	3,360,180 00	87,407 83
Sanitary Service.....	1,536,633 27		1,536,633 27	
Street Cleaning and Oiling Service.....	916,061 41		916,061 41	
Sewer Service.....	607,043 15	1,032,991 20	1,640,034 35	352,658 34
Water Service.....	1,232,418 76	322,824 41	1,555,243 17	76,194 97
Totals.....	\$7,307,894 48	\$4,398,713 94	\$11,706,608 42	\$959,411 82

* \$600,000 authorized but not issued.

Comparative Table Showing Cost of Maintenance of the Public Works Department Since 1912.

DIVISION AND SERVICE.	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.	1921-22.
Central Office.....	\$77,515 65	\$80,159 50	\$74,592 01	\$70,618 59	\$74,206 04	\$73,965 70	\$73,074 04	\$79,909 15	\$91,373 98	\$88,308 02
Bridge Service.....	268,959 44	271,423 04	283,066 41	269,283 23	277,847 65	304,720 63	323,601 28	363,130 05	410,216 53	392,589 05
Boston and Cambridge Bridges.....	17,183 87	17,744 48	18,645 52	17,765 44	18,945 39	21,587 66	23,942 63	26,390 52	26,783 42	27,999 77
Ferry Service.....	269,016 52	277,727 39	293,671 43	277,048 47	303,917 18	355,480 17	393,783 69	436,687 75	574,754 54	496,836 35
Lighting Service.....	768,779 08	795,880 53	753,811 73	739,599 62	772,769 97	773,541 76	540,350 56	714,821 55	722,134 24	722,091 55
Paving Service.....	1,236,686 29	1,301,082 17	1,223,364 69	1,029,374 44	802,150 73	949,803 41	1,006,628 46	1,063,059 16	1,023,332 59	1,110,496 07
Removal of Snow.....	106,691 07	64,007 49	163,105 19	131,142 57	303,570 39	203,210 45	138,659 39	78,802 12	663,111 55	215,399 21
Sanitary Service.....	790,809 01	925,318 56	1,017,452 66	1,042,315 00	969,438 86	1,031,156 99	1,106,933 20	†1,265,581 65	1,508,102 71	†1,629,078 98
Sewer Service.....	378,873 18	387,130 67	362,672 07	339,446 62	322,199 03	379,483 30	452,310 71	472,713 49	616,461 55	607,043 15
Street Cleaning Service.....	454,623 71	492,324 45	472,730 69	489,959 90	428,899 28	516,475 67	556,830 98	607,992 26	700,031 01	640,179 28
Street Watering and Oiling Service*.....	198,993 93	228,511 50	174,312 00	139,744 97	121,450 68	110,488 14	137,150 39	118,014 00	186,763 20	145,454 29
Water Service.....	835,072 00	899,338 91	894,170 14	904,135 19	917,823 64	1,045,543 65	1,055,842 87	1,010,634 32	1,253,166 33	1,232,418 76
Totals.....	\$5,403,203 75	\$5,800,638 69	\$5,733,594 54	\$5,450,434 30	\$5,313,218 84	\$5,765,457 53	\$5,809,108 20	\$6,237,742 02	\$7,776,231 65	\$7,307,894 48

* Engineering and Water Departments were consolidated into the Public Works Department, February 1, 1911.

† Includes \$71,000 paid by Street Cleaning and Oiling Service.

‡ Includes \$92,445.71 paid by Street Cleaning and Oiling Service.

REVENUES.

*Collected by City Collector on Account of the Public Works
Department and Credited to General Revenue,
as per City Auditor.*

Bridge Service:

Labor and material	\$216 20	
Rents, Charlestown Bridge	2,921 75	
Warren Bridge repairs	12,548 70	
	<hr/>	\$15,686 65

Ferry Service:

Tolls	\$99,674 21	
Rents	522 35	
Commission on telephones	100 50	
Cleaning telephone booths	48 00	
Free ferries, July 4	1 00	
Head House privileges, weighing and vending machines	400 00	
Head House privileges, coin lock on closets	25 00	
Sale of old materials	116 86	
Labor and materials furnished	70 00	
Sale of ferryboat "D. D. Kelly"	1,000 00	
Sale of ferryboat "General Hancock"	2,500 00	
	<hr/>	104,457 92

Lighting Service:

Lighting Boston and Cambridge bridges.	\$2,581 92	
Damages to lamp-posts	144 50	
	<hr/>	2,726 42

Paving Service:

Inspectors' services	\$3,933 00	
Labor and materials	7,698 64	
Sidewalk and edgestone assessments	26,713 05	
Permits	22,688 73	
Sale of old materials	3,737 54	
Labor and materials (chapter 28, Revised Ordinances of 1914)	1,202 40	
Removal of dead horses	56 00	
Hire of steam roller	18 00	
Refund on cement and overpayment of services	18 25	
Coal penalty	7 10	
	<hr/>	66,072 71

Carried forward \$188,943 70

<i>Brought forward</i>		\$188,943 70	
Sanitary Service:			
Tickets for the removal of			
waste	\$97,054 10		
Sale of manure	3,390 70		
Sale of old material	139 49		
Labor and materials	74 50		
Forfeiture on bid	500 00		
Refund.	32 50		
	<hr/>		101,191 29
Street Cleaning and Oiling Service:			
Removing dirt	\$1,335 25		
Forfeiture on bid	1,000 00		
Rents	900 00		
Coal penalty	56		
	<hr/>		3,235 81
Sewer Service:			
Disposal of sewage	\$5,869 36		
Entrance fees	2,101 18		
Labor and materials	1,799 05		
Sale of materials	418 20		
Assessments	113 16		
Refund	2 25		
Sale of hay	21 00		
Rent	10 00		
	<hr/>		10,324 20
Water Service:			
Water rates, 1922, \$62,430 35			
Water rates, prior			
years	3,345,148 89		
	<hr/>	\$3,407,579 24	
Service pipes	19,734 81		
Labor and materials	3,686 04		
Elevator and fire pipes	18,044 84		
Sale of materials	3,023 89		
Fees on overdue rates	4,646 53		
Off and on	1,700 00		
Interest on deposits	649 90		
Sale of merchandise	195 72		
Testing meters	79 76		
Standpipes and hydrants	2,259 80		
Relocating pipes	934 64		
Board of horses	180 00		
Rent	100 00		
Loan of meter	2 00		
Damage to hydrants	523 76		
Damage to automobiles	294 41		
Furnishing water	29 73		
	<hr/>		
<i>Carried forward</i>	\$3,463,665 07	\$303,695 00	

<i>Brought forward</i> . . .	\$3,463,665 07	\$303,695 00
Repairs to automobiles . . .	1,146 66	
Refunds	74 19	
Sale of gasolene	173 01	
Amount voted by City Council		
January 24, 1920, to pay re-		
funds of balances of deposits		
having been tied up by the		
closing of the Old South		
Trust Company	8,000 00	
	<hr/>	3,473,058 93
		<hr/>
		<u>\$3,776,753 93</u>

CONTRACTS MADE BY PUBLIC WORKS DEPARTMENT FROM FEBRUARY 1, 1921, TO JANUARY 31, 1922.
Hired Team Contracts from February 1, 1921, to January 31, 1922.

District.	Awarded to	Single per Day.	Double per Day.	Auto Trucks per Day.	Paving Service	Sanitary Service.	Sewer Service.	Street Cleaning and Oiling Service.	Total.
1 No. 1, South Boston and Dorchester North..	Joseph P. McCabe.....	\$5 00	\$7 00	\$35 00	\$6,468 00	.....	.....	.....	\$6,468 00
1 No. 2, East Boston and Breed's Island.....	Martino DeMatteo.....	5 00	8 00	35 00	1,968 00	.....	\$738 95	.....	2,706 95
1 No. 3, Charlestown.....	Edw. J. McHugh and Son..	5 75	6 50	20 00	1,387 50	.....	.....	.....	1,387 50
1 No. 4, Brighton.....	John Kelly Company.....	4 25	7 45	25 00	5,906 86	.....	.....	.....	5,906 86
1 No. 5, Roxbury.....	Martino DeMatteo.....	3 00	6 70	28 00	12,417 79	\$4,272 45	.....	.....	16,690 24
1 Nos. 6-9 Dorchester and Ashmont.....	John D. Lyons.....	3 50	7 00	22 00	14,561 50	.....	.....	.....	14,561 50
1 No. 7, Roxbury South and Jamaica Plain....	John J. Moore.....	4 00	6 00	35 00	5,938 00	43,726 50	.....	.....	540,684 50
1 No. 8, South End and Roxbury North.....	Michael H. Loonie.....	4 50	6 30	35 00	6,252 52	20,771 79	.....	.....	27,024 51
1 No. 10, North and West Ends and Back Bay..	B. E. Grant Company.....	5 75	6 00	37 50	4,538 00	41,118 95	.....	.....	45,656 95
1 No. 11, Hyde Park.....	Martino DeMatteo.....	5 00	7 75	30 00	910 63	.....	.....	.....	910 63

1 Advertisised and awarded to lowest bidder.

BRIDGE AND FERRY DIVISION — BRIDGE SERVICE. Bridge Work.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
¹ Repairs on pontoons of public landings at Northern avenue and Summer street bridges.	George T. Rendle Company . . .	April 13, 1921.	Completed May 17, 1921. . .	\$1,966 00	\$1,983 95
¹ Repairs to New Allen Street Bridge over New York, New Haven & Hartford Railroad, Hyde Park.	V. Grande	June 13, 1921.	Completed July 8, 1921. . .	4,900 00	4,900 00
¹ Repairing pile span, Chelsea Bridge North.	John B. Dolan	June 15, 1921.	Completed July 29, 1921. . .	4,104 00	3,949 36
¹ Repairing Bennington Street Bridge over Boston, Revere Beach & Lynn Railroad, East Boston.	John B. Dolan	July 8, 1921.	Completed Aug. 29, 1921. . .	3,067 20	3,047 20
¹ Repairing Dorchester Avenue Bridge	J. P. Cavanagh Company	June 30, 1921.	Completed Sept. 3, 1921. . .	3,832 50	3,924 26
¹ Repairing West Glenwood Avenue Bridge over Mother brook, Hyde Park.	John McCourt Company	July 25, 1921.	Completed Aug. 20, 1921. . .	2,221 00	3,036 95
¹ Cleaning and painting draw span of Meridian Street Bridge over Chelsea Creek.	W. H. Ellis and Son Company	Aug. 2, 1921.	Completed Sept. 30, 1921. . .	2,450 00	2,450 00
¹ Furnishing plans, etc., Chelsea Bridge South.	The Strauss Bascule Company,	July 28, 1921.	Not completed	12,000 00	
¹ Repairing concrete draw pier, Dover Street Bridge.	Maurice M. Devine	Sept. 6, 1921.	Completed Nov. 19, 1921. . .	2,078 00	1,766 30
¹ Installing navigation lights, Dover Street Bridge.	Barnes Pope Electric Company	Sept. 19, 1921.	Completed Dec. 12, 1921. . .	791 00	672 35
¹ Rebuilding over Mother brook, Hyde Park Avenue Bridge, Hyde Park.	General Construction Company	Sept. 20, 1921.	Unfinished	11,250 00	4,611 25
¹ Repairing fender piers, Dover Street Bridge.	W. H. Ellis and Son Company	Oct. 28, 1921.	Completed Dec. 12, 1921. . .	2,384 00	2,347 11
¹ Repairing fender piers, Charlestown and Warren Bridges.	W. S. Rendle and Son Company	Dec. 6, 1921.	Unfinished	16,507 00	2,104 52
¹ Repairs to roof of drawtenders' houses.	Joseph E. Somerset	Nov. 23, 1921.	Completed Jan. 9, 1922. . .	1,875 00	1,520 65

¹ Advertised and awarded to lowest bidder.

² Not advertised.

Miscellaneous Work.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
¹ Planking Sprague Street Station, over New York, New Haven & Hartford Railroad, near Readville Station, Hyde Park.	J. P. Cavanagh Company.....	June 13, 1921.	Completed June 28, 1921...	\$3,290 00	\$2,422 50
¹ Furnishing and installing a steel stiffleg derrick with operating engine at the sewer wall of the Roxbury Canal, City Paving Yard, Albany street, City.....	P. I. Perkins Company.	June 15, 1921.	Completed Jan. 20, 1922...	6,000 00	5,289 93
¹ Planking sides of Roxbury Canal dumping platform, etc., Albany street, City.	W. S. Rendle.	June 22, 1921.	Completed July 8, 1921....	2,000 00	1,849 00
Surfacing beach, foot of M and N streets, Strandway, South Boston.	D. M. Biggs & Company.....	Nov. 8, 1921.	Unfinished.....	42,750 00	13,492 75

¹ Advertised and awarded to lowest bidder.

BRIDGE AND FERRY DIVISION — FERRY SERVICE.
Ferry Work.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
1 Teaming coal to ferryboats.....	E. J. McHugh & Son.....	Feb. 8, 1921.	Completed Jan. 31, 1922...	\$4,400 00	\$4,341 98
1 Repairing main shaft, etc, ferryboat "Hugh O'Brien,"	Bertelson & Peterson Engineering Company.	Feb. 8, 1921.	Completed April 11, 1921...	2,400 00	2,105 00
2,3 Weighing and vending machines at ferry houses	Autosales Corporation.....	Feb. 16, 1921.	Completed Jan. 31, 192	400 00	400 00
1 Repairs on 8 bronze propeller blades on screw ferryboats.	Atlantic Works.....	April 14, 1921.	Completed May 6, 1921.....	1,014 00	1,014 00
1 Repairing piers of East Boston ferries.....	W. H. Ellis & Son Company...	May 31, 1921.	Completed Sept. 26, 1921....	8,882 50	15,809 90
1 Repairing main engines, etc., on ferryboat "John H. Sullivan."	Atlantic Works.....	June 6, 1921.	Completed July 5, 1921.....	3,974 00	5,947 60
1 Barriers and gates, ferryboat "Hugh O'Brien"	R. Minton Company.....	July 1, 1921.	Completed Oct. 24, 1921....	2,000 00	2,000 00
1 Repairs to hull, etc., ferryboat "John H. Sullivan" ..	Atlantic Works.....	June 30, 1921.	Completed July 5, 1921.....	32 97	3,179 00
1 Propeller for ferryboat "John H. Sullivan"	Atlantic Works.....	July 26, 1921.	Completed Sept. 15, 1921....	815 00	815 00
1 Repairing guards, etc., ferryboat "Hugh O'Brien" ...	R. T. Green Company.....	Nov. 18, 1921.	Completed Dec. 13, 1921....	1,489 00	1,631 60
1 Repairing piers, Boston landing of North Ferry.....	Lawlor Brothers.....	Dec. 5, 1921.	Unfinished.....	3,463 40	Nothing.

1 Advertised and awarded to lowest bidder.

2 Paid to city.

3 Advertised and awarded to highest bidder.

HIGHWAY DIVISION — LIGHTING SERVICE.

Contracts in Force Made in Previous Years.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1919.
^{1, 2, 3} Furnishing gas for street lighting purposes for a period of ten years from April 1, 1914, until March 31, 1924, inclusive.	Boston Consolidated Gas Company.....	March 19, 1914.	Unfinished.....	.....	} \$195,805 09
^{1, 2, 3, 4, 5} Lighting the streets, parks and alleys (except streets in Charlestown and Hyde Park) with gas for a period of ten years, from April 1, 1914, until March 31, 1924, inclusive.	Boston Consolidated Gas Company.....	March 19, 1914.	Unfinished.....	.....
^{1, 5} Lighting the streets, parks and alleys with electricity (except streets in Charlestown and including Charlestown if said company shall purchase the electric distribution system located therein) for a period of ten years, from December 7, 1914, until December 6, 1924, inclusive.	The Edison Electric Illuminating Co....	Dec. 7, 1914.	Unfinished.....	.....	*472,921 31

¹ Only bid; not advertised.

² Agreement made July 21, 1914, that prices for gas lamps outside of contract be as follows: Triple burner lamps, per annum, \$45, fire alarm signal lamps, \$21.
³ Annual rates paid for gas lamps. Single burner: For gas, \$9
 For lighting and care, 12

Total.....\$21
 Total.....\$33

⁴ Contracts may be terminated on April 1, 1919, if City Council votes and Mayor approves.

If rate to regular consumers is reduced to a price less than 80 cents per M., a rebate will be made to the city at the rate of 12 cents per lamp per year for each 1 cent the price is so reduced below 80 cents per M.

* Lighting rates for the electric lamps are as shown on next page.

DESCRIPTION OF LAMP.	Fixed Costs per Lamp per Year.	Running Costs per Lamp Hour.	DESCRIPTION OF LAMP.	Fixed Costs per Lamp per Year.	Running Costs per Lamp Hour.
40 candle power Inc. lamp, series.....	\$10 80	0.18 cent	100 candle power Inc. lamp, multiple.....	\$18 00	0.50 cent
40 candle power Inc. lamp, multiple.....	12 00	0.25 cent	200 candle power Inc. lamp, series.....	25 00	1.00 cent
60 candle power Inc. lamp, series.....	12 00	0.20 cent	500 candle power Inc. lamp, multiple.....	36 00	1.50 cents
60 candle power Inc. lamp, multiple.....	12 00	0.20 cent	425 watt A. C. arc lamp, multiple.....	36 00	1.60 cents
100 candle power Inc. lamp, series.....	18 00	0.40 cent	800 candle power magnetite 500 watt D. C. arc lamp series.....	36 00	1.37 cent

A discount of 10 per cent is allowed from above rates.

A deduction at the rate of 1 cent per hour for lamps of 100 candle power or less and 5 cents per hour for all other lamps is allowed for all outages.

The above are new prices which became effective on
February 26, 1918, by decision of the Gas and Electric
Light Commissioners.

Rebates for the preceding years, to the amount of
\$147,746.25, were deducted from bills paid in 1918 to
the Edison Electric Illuminating Company.

For further detail, see report of Lighting Service for
1918.

HIGHWAY DIVISION.—PAVING SERVICE. Artificial Stone Sidewalks, Furnishing and Laying.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
¹ Orchard street, from Centre street to Pond street, West Roxbury.	Andrews Construction Company.	June 22, 1921.	Completed Aug. 9, 1921...	\$4,797 00	\$5,111 03
¹ Moore street, from Bennington street to Cowper street; Cowper street, from Moore street 300 feet easterly, East Boston.	Holbrook Construction Company.	June 24, 1921.	Completed July 28, 1921..	3,448 55	3,468 73
¹ Fairbanks street, from Washington street to Faneuil street, Brighton.	John McCourt Company.....	June 24, 1921.	Completed July 15, 1921..	2,860 80	2,617 44
¹ Blue Hill avenue, west side, from 217 feet south of Goodale road to Wellington Hill street; Euclid street, from Washington street to Wellington street; Wachuset street, from Weld Hill street to Walk Hill street, West Roxbury.	Metzger & Tratton.....	July 1, 1921.	Completed Oct. 29, 1921..	7,568 00	8,255 27
¹ Beacon street (south side) at Brookline avenue (Hotel Buckminster); Hemenway street (east side), from Batavia street to Gansborough street; Hemenway street (west side), from Museum square, about 230 feet northerly; Peterborough street (south side) at Nos. 40 and 42, city proper.	L. DeSisto & Co.....	Sept. 19, 1921.	Completed Oct. 13, 1921..	1,422 00	1,544 37
¹ South street, from Arehdale road to Washington street, West Roxbury.	Charles Struzziery.....	Sept. 22, 1921.	Completed Nov. 26, 1921..	4,555 40	4,918 93

¹ Advertised and awarded to lowest bidder.

Artificial Stone Sidewalks, Rebate.*

CONTRACTOR.	Dated.	Contract Completed.	Price per Square Foot.	Amount Expended in Rebate in 1921.
John Landis.....	April 5, 1921.....	January 31, 1922.....	\$0 12	\$3,021 84
Michael D. Russo.....	March 23, 1921.....	January 31, 1922.....	12	63 12
Charles Struzziery.....	April 11, 1921.....	January 31, 1922.....	12	Nothing.
B. F. Hanrahan.....	April 28, 1921.....	January 31, 1922.....	12	582 24
Domenick Vozzella.....	April 28, 1921.....	January 31, 1922.....	12	Nothing.
Sylvester Connolly.....	April 28, 1921.....	January 31, 1922.....	12	155 28
George M. Crowell.....	May 5, 1921.....	January 31, 1922.....	12	188 88
Joseph Lambiase.....	May 11, 1921.....	January 31, 1922.....	12	214 32
Thomas J. Hind Company.....	May 11, 1921.....	January 31, 1922.....	12	23 76
W. A. Murtfeldt Company.....	May 23, 1921.....	January 31, 1922.....	12	58 92
F. S. Cassali.....	May 23, 1921.....	January 31, 1922.....	12	150 60
Joseph Rugo.....	May 23, 1921.....	January 31, 1922.....	12	347 16
D. M. Biggs & Co.....	June 3, 1921.....	January 31, 1922.....	12	59 76
John T. Shea, Jr.....	June 6, 1921.....	January 31, 1922.....	12	219 36
John C. Cole.....	June 13, 1921.....	January 31, 1922.....	12	Nothing.
Frank P. Rossano.....	February 10, 1921.....	January 31, 1922.....	12	225 00
Joseph A. Singarella.....	July 18, 1921.....	January 31, 1922.....	12	24 00
Charles Barron.....	August 2, 1921.....	January 31, 1922.....	12	120 60

Warren Brothers Company.....	August 12, 1921.....	January 31, 1922.....	12	201 96
Kelly Brothers.....	August 8, 1921.....	January 31, 1922.....	12	67 20
Henry F. Armington.....	August 16, 1921.....	January 31, 1922.....	12	205 20
Charles Umana.....	August 30, 1921.....	January 31, 1922.....	12	Nothing.
Michael Daly.....	August 30, 1921.....	January 31, 1922.....	12	78 96
Fleischmann Construction Company.....	September 6, 1921.....	January 31, 1922.....	12	Nothing.
Myer Feldman.....	September 20, 1921.....	January 31, 1922.....	12	120 96
Isadore Zieman.....	September 30, 1921.....	January 31, 1922.....	12	Nothing.
New England Appraisal and Construction Company.....	October 13, 1921.....	January 31, 1922.....	12	Nothing.
Massachusetts Concrete Construction Company.....	November 18, 1921.....	January 31, 1922.....	12	Nothing.
The Scully Company.....	December 5, 1921.....	January 31, 1922.....	12	Nothing.
Bond Brothers.....	December 6, 1921.....	January 31, 1922.....	12	Nothing.
C. H. Zappe.....	December 30, 1921.....	January 31, 1922.....	12	Nothing.

* These walks are guaranteed by a surety company bond for five years from date of completion, and were laid on various public streets where the contractor had agreements with the abutters. The price twelve (12) cents per square foot is equivalent to the expense to the city of one half the cost of a brick sidewalk.

Sheet Asphalt Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
Allenwood street, from Anawan avenue to Pelton street; Castleton street, from South Huntington avenue to Jamaicaway; Chilton road, from Weld street, 411 feet northwesterly, Parkwood terrace, from Parkton road to Jamaicaway, West Roxbury.	John T. Shea, Jr.....	Nov. 8, 1921...	Unfinished.....	\$23,923 40	\$8,465 43

¹ Advertised and awarded to lowest bidder.

Asphalt Concrete Pavement.

CONTRACT.	Awarded to.	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
1 Halifax street, from South Huntington avenue to Pond View avenue; Oriole street, from Bellevue street to Emissions road, West Roxbury.	M. DeMatteo.....	April 29, 1921.	Completed July 6, 1921.....	\$17,600 25	\$17,638 61
1 Columbus avenue, from Centre street to Walnut avenue; Seaver street, from Blue Hill avenue to Columbia road, Roxbury.	Simpson Brothers Corporation..	May 11, 1921.	Completed Aug. 9, 1921.....	64,573 40	63,984 43
1 Chelsea street, from Maverick street to Day square; Bremen street, from 230 feet northeast of Maverick street to Porter street, East Boston.	Coleman Brothers, Inc.....	May 13, 1921.	Completed July 21, 1921....	88,429 80	91,838 72
1 Huntington avenue (northwest roadway), from Gainsborough street to Hemenway street; West Newton street, from Tremont street to Shawmut avenue, city proper.	Andrews Construction Company.	May 12, 1921.	Completed July 18, 1921....	27,071 95	30,737 52
1 Pontiac street, from Tremont street to Hillside street, Roxbury.	John McCourt Company.....	May 24, 1921.	Completed June 28, 1921....	13,307 45	13,270 50
1 Imrie road, from Cambridge street to Allston Playgrounds; Melton road, from Wallingford road to Colonial road; Thorndike street, from Commonwealth avenue to Brookline line, Brighton.	C. M. Callahan.....	June 3, 1921.	Completed Sept. 15, 1921....	16,152 06	16,818 29
Chestnut Hill avenue, from Commonwealth avenue to Beacon street; Beacon street and Chestnut Hill avenue, from Brookline line to Brookline line (including Cleveland circle), Brighton.	John J. Lane.....	June 13, 1921.	Completed Oct. 16, 1921....	64,075 10	69,346 35
1 Centre street, from Columbus avenue across Hyde square and from Boylston street across Green street, West Roxbury.	B. E. Grant Company.....	Aug. 10, 1921.	Unfinished.....	67,322 00	38,378 54

1 North Beacon street, from Market street to beyond Parsons street, Brighton.	John Kelly Company.	Oct. 5, 1921.	Unfinished.	41,201 45	11,264 09
1 Stuart street, from Dartmouth street across Trinity place and from Clarendon street to Columbus avenue, city proper.	DeStefano Brothers, Inc.	Nov. 21, 1921.	Unfinished.	24,556 50	Nothing.
1 Arborway, from Forest Hills street to Morton street, and Morton street, from Forest Hills avenue to 1,200 feet easterly, West Roxbury.	Rowe Contracting Company. . .	Nov. 25, 1921.	Unfinished.	22,498 75	Nothing.
1 Hastings street, from Centre street to Corey street, West Roxbury.	M. DeMatteo.	Dec. 6, 1921.	Unfinished.	3,646 76	Nothing.

¹ Advertised and awarded to lowest bidder.

Wood Block Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
1 Charles street, from Beacon street to Cambridge street, city proper.	B. E. Grant Company.	Aug. 2, 1921.	Completed Nov. 22, 1921. . .	\$38,398 55	\$41,719 27
1 Congress street, Post Office square, Milk street, from State street across Federal street, city proper.	Coleman Brothers, Inc.	Sept. 16, 1921.	Completed Nov. 22, 1921. . .	21,153 00	23,251 31

¹ Advertised and awarded to lowest bidder.

Bitulithic Pavement.

CONTRACT.	Awarded to.	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
1 Dorchester street, from East and West Broadway to East and West Eighth streets, South Boston.	S. J. Tomasello.	May 9, 1921.	Completed Sept. 1, 1921. . .	\$29,117 20	\$41,551 73
1 Brenton street, from Glenway street to Greenwood street; Whitton street, from Dorchester avenue to Althea street, Dorchester.	Warren Brothers Company. . . .	June 8, 1921.	Completed Aug. 10, 1921. . .	15,145 42	15,392 16

¹ Advertised and awarded to lowest bidder.

Granite Block Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
¹ Clarendon street, from Stuart street to bridge over Boston & Albany Railroad; Stanhope street, from Morgan street to Trinity place, city proper.	Gore, Inc.....	May 24, 1921.	Completed Aug. 18, 1921...	\$24,453 90	\$27,025 53
¹ Columbus avenue, from Tremont street across Centre street, Roxbury.	John Kelly Company.....	June 24, 1921.	Completed Oct. 17, 1921...	50,894 05	57,382 03
¹ Washington street, from 69 feet south of Corinth street to Denton terrace, West Roxbury.	Gore, Inc.....	Aug. 30, 1921.	Unfinished.....	24,160 23	16,498 47
¹ Centre street, between Columbus avenue and Green street, West Roxbury.	Boston Elevated Street Railway Company.	Oct. 21, 1921.	Unfinished.....	11,520 00	13,459 71
¹ Washington street, from Archdale road to Corinth street, West Roxbury.	Boston Elevated Street Railway Company.	June 23, 1920.	Completed.....	26,000 00	26,934 03
² Belgrade avenue and Centre street, West Roxbury.	Boston Elevated Street Railway Company.	Aug. 25, 1920.	Completed.....	65,000 00	59,242 89
¹ Washington street, from 69 feet south of Corinth street to Denton terrace, West Roxbury.	Boston Elevated Street Railway Company.	Dec. 5, 1921.	Completed.....	14,000 00	18,295 94
¹ Dorchester avenue, from Park street to Ashmont street, Dorchester.	Gore, Inc.....	July 22, 1921.	Completed Dec. 3, 1921.....	57,702 00	53,639 58

Repairing Bituminous Pavement.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
¹ Repairing bituminous pavement.....	Rowe Contracting Company...	April 22, 1921.	Completed Jan. 31, 1921....	\$70,050 00	\$50,243 20

Removing Snow and Ice.

District.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
¹ Snow District No. 1.....	G. Ferullo Company.....	Dec. 12, 1921.	Uncompleted.....	\$0 35 per cubic yard.....	Nothing.
¹ Snow District No. 2.....	Beatty Construction Company..	Dec. 24, 1921.	Uncompleted.....	40 per cubic yard.....	Nothing.
¹ Snow District No. 3.....	Coleman Brothers, Inc.....	Dec. 12, 1921.	Uncompleted.....	40 per cubic yard.....	Nothing.
¹ Snow District No. 4.....	Charles Capone.....	Dec. 12, 1921.	Uncompleted.....	48 per cubic yard.....	Nothing.
¹ Snow District No. 5.....	B. E. Grant Company.....	Dec. 12, 1921.	Uncompleted.....	44 per cubic yard.....	Nothing.
¹ Snow District No. 6.....	B. E. Grant Company.....	Dec. 12, 1921.	Uncompleted.....	34 per cubic yard.....	Nothing.
¹ Snow District No. 7.....	Beatty Construction Company..	Dec. 24, 1921.	Uncompleted.....	33 per cubic yard.....	Nothing.
¹ Snow District No. 8.....	Standard Construction Company.	Dec. 12, 1921.	Uncompleted.....	42 per cubic yard.....	Nothing.
¹ Snow District No. 9.....	J. C. Coleman & Sons Company.	Dec. 15, 1921.	Uncompleted.....	34 per cubic yard.....	Nothing.

¹ Advertised and awarded to lowest bidder.² Not advertised.

SEWER AND SANITARY DIVISION — SEWER SERVICE.
Sewerage Works.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost as per Estimated Quantity, not Including Materials Furnished by City.	Amount Expended in 1921.
1 Harrison avenue, from Eustis street to Palmer street, Roxbury.	Charles Struzziery.	Feb. 8, 1921.	Completed March 24, 1921.	\$4,851 00	\$4,640 32
1 Melton road, from Wallingford road to Colonial road, Brighton.	M. DeSisto Company.	April 18, 1921.	Completed July 19, 1921.	4,544 15	3,931 10
1 Whitten street, from about 350 feet west of Adams street to Dorchester avenue, Dorchester.	General Construction Company, Inc.	April 22, 1921.	Completed July 2, 1921.	5,783 50	5,207 77
1 Chatham street, from Commercial street to Merelaunts row, city proper.	William Barrett & Co.	April 22, 1921.	Unfinished.	11,617 50	12,535 36
1 Roanoke road, from Blake street to Weybosset street, Hyde Park.	Joseph Todesca.	April 13, 1921.	Completed Oct. 6, 1921.	6,602 70	7,590 37
1 Stark street, from Rowland street and Cambridge street, Charlestown.	A. Cefalo.	April 29, 1921.	Completed May 19, 1921.	1,495 00	1,253 91
1 Boutwell street, from Queen street to Train street, and Train street, from Boutwell street to Munroe terrace, Dorchester.	Charles Struzziery.	May 11, 1921.	Completed July 26, 1921.	2,825 75	2,503 33
1 Rosindale branch of Stony brook in Fifth road and private land, from Cornith street to Lindall street, West Roxbury.	A. Baruffaldi.	May 5, 1921.	Unfinished.	84,061 80	47,606 25
1 Wood avenue, from Oakland street to Noah street, Dorchester and Hyde Park.	George J. Regan.	May 9, 1921.	Completed July 7, 1921.	4,424 50	4,335 08
1 Sentinole street, Dorchester and Hyde Park.	T. Coughlin.	May 24, 1921.	Completed Aug. 11, 1921.	4,124 45	4,594 00

1 Oakwood avenue and Thane street, Dorehester.	A. Cefalo.....	May 25, 1921.	Completed July 28, 1921.....	1,210 45	820 83
1 Townsend street, from Warren street, about 400 feet northwesterly, Roxbury.	J. Guarino & Co.....	June 1, 1921.	Completed Nov. 19, 1921.....	5,003 50	5,626 57
1 Saunders street, from Guilford street to Cambridge street; and Inrie road, from Cambridge street to playground, Brighton.	D. Vitiello.....	June 8, 1921.	Completed Aug. 2, 1921.....	2,547 00	1,886 20
1 Water and Williams streets and outlet in private land, from Neponset river to Water street, Hyde Park.	V. Grande.....	June 7, 1921.	Completed Aug. 10, 1921.....	4,787 20	3,992 07
1 Anawan avenue and Allenwood street, from Beech street to Pelton street, West Roxbury.	A. Cefalo.....	June 3, 1921.	Completed Nov. 21, 1921.....	3,717 75	2,184 81
1 Hull street, from 177 feet southeasterly, from Snow Hill street to a point 155 feet northwesterly, city proper.	V. Grande.....	June 24, 1921.	Completed Aug. 4, 1921.....	1,299 50	971 79
1 Tampa street, Dorehester and Hyde Park; Edgewater drive, Dorehester.	James Barletta.....	June 24, 1921.	Completed Aug. 27, 1921.....	4,311 50	3,327 67
1 North Harvard street and Parker avenue, from Empire street and Sorrento street, Brighton.	General Construction Company, Inc.	July 8, 1921.	Completed Aug. 16, 1921.....	1,661 45	1,141 42
1 Chilton road, from Addington road and Weld street, and outlet from Addington road 70 feet northwesterly, West Roxbury.	A. Cefalo.....	July 8, 1921.	Completed Aug. 22, 1921.....	2,292 15	1,869 89
1 D street and Fargo street, South Boston.....	James J. Conway.....	July 18, 1921.	Completed Oct. 24, 1921.....	12,753 10	12,092 91
1 Porter street outlet, Cottage street and Lamson street, East Boston.	James Barletta.....	July 26, 1921.	Unfinished.....	4,935 00	7,096 34
1 Ruxton road, from Rugby road to Ridge road, Dorehester.	M. DeSisto.....	July 27, 1921.	Completed Oct. 2, 1921.....	1,542 00	683 83
1 River street and outlet in private land, Hyde Park.	Charles Struzziery.....	Aug. 10, 1921.	Completed Sept. 22, 1921.....	2,966 00	2,535 42
1 Davenport brook in private land, between Nimot and Niereh streets, from existing concrete conduit in Henderson road about 510 feet easterly, Dorehester.	General Construction Company, Inc.	Aug. 30, 1921.	Unfinished.....	34,167 00	19,558 76

Sewerage Works.—Continued.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost as per Estimated Quantity, not Including Materials Furnished by City.	Amount Expended in 1921.
Peabody street, from Brookline avenue to Binney street, Roxbury.	T. Coughlin.....	Sept. 6, 1921.	Completed Sept. 22, 1921.....	\$1,649 00	\$682 41
Bellevue street, from Howlett road to Robbins street, West Roxbury.	D. Vitiello.....	Sept. 6, 1921.	Completed Dec. 15, 1921.....	18,067 75	7,726 28
Alleghany street, between Terrace and Parker streets, Roxbury.	George J. Regan.....	Sept. 16, 1921.	Completed Sept. 29, 1921.....	2,673 50	2,993 33
Elmhurst street, from Southern avenue and Norfolk street, Dorchester.	T. Coughlin.....	Sept. 16 1921.	Completed Oct. 13, 1921.....	1,326 60	1,002 60
Fredland street, Dorchester, and Rutledge road and Sefton street, Hyde Park.	George J. Regan.....	Sept. 19, 1921.	Completed Dec. 8, 1921.....	2,485 25	1,603 72
Allston Heights, from Cambridge street to Ridgmont street, Brighton.	L. DeSisto Company.....	Sept. 22, 1921.	Unfinished.....	1,318 75	775 11
Chesterton street, from Massachusetts avenue to Allerton street, Roxbury.	C. & R. Construction Company.	Oct. 13, 1921.	Completed Nov. 20, 1921.....	7,805 20	5,333 08
Chelsea street, from Ifenley street to Chestnut street, Charlestown.	S. J. Tomasello.....	Oct. 13, 1921.	Completed Nov. 26, 1921.....	4,082 65	23,548 74
Private land and land of Boston Consumers' Hospital, Dorchester.	James Barletta.....	Oct. 24, 1921.	Unfinished.....	6,329 25	3,798 99
Medcalf street, from Dundee avenue to Penfield street; Corey street, from Corey street to Park; Hastings street, from Hastings street to Corey street, West Roxbury.	P. De Cristoforo.....	Oct. 24, 1921.	Unfinished.....	4,411 21	1,271 59
Farragut road, from East First street to East Second street; and East Second street from Farragut road and O street, South Boston.	James J. Conway.....	Oct. 18, 1921.	Unfinished.....	25,106 55	7,738 91

1 Tilton street, from Follows street, 280 feet northwesterly, Roxbury.	M. H. Loonie.....	Oct. 18, 1921.	Completed Nov. 22, 1921.....	3,661 00	2,984 19
1 Hyde Park avenue, from 250 feet southwest- of New Allen street, about 550 feet south- westerly, Hyde Park.	A. Grande.....	Nov. 15, 1921.	Unfinished.....	8,036 25	
1 Faneuil Valley brook conduit and dredging of Charles river, at outlet of conduit, Brighton.	James Bartlett.....	Nov. 8, 1921.	Unfinished.....	8,320 00	2,429 64
1 Alaric street, from Centre street to 250 feet westerly, West Roxbury.	J. Guarino & Co.....	Nov. 18, 1921.	Completed Dec. 22, 1921.....	1,692 00	1,061 80
1 Balsam street, from Erma street to Blue Hill avenue; Ashton street, from Arbutus street to Balsam street, Dorchester.	T. Coughlin.....	Nov. 18, 1921.	Completed Jan. 5, 1922.....	3,109 30	1,694 28
1 Wood avenue, from existing sewer, 62 feet northeast of Parker street, about 250 feet northeast, Hyde Park.	L. De Sisto & Co.....	Nov. 18, 1921.	Unfinished.....	1,580 25	742 43
1 Arborway, from Forest Hills street to Morton street; Morton street from Forest Hills street to point 800 feet east of Morton road, West Roxbury.	M. De Matteo.....	Nov. 21, 1921.	Unfinished.....	4,218 00	1,777 04
1 Alley No. 816, from St. Botolph street, 275 feet southeasterly, and outlet in St. Botolph street, Roxbury.	C. & R. Construction Com- pany.	Nov. 21, 1921.	Unfinished.....	6,298 50	4,135 24
1 Mt. Vernon street, from Charles street to Charles river embankment, city proper.	A. Di Lucci & Co.....	Nov. 30, 1921.	Unfinished.....	14,924 40	1,979 11
1 Oakland brook in Monterey avenue; Savannah avenue, private land, Itasca street and Currier street, Dorchester.	J. W. O'Connell.....	Dec. 5, 1921.	Unfinished.....	24,887 00	
1 Passageway at No. 821 Adams street, Dor- chester.	L. De Sisto & Co.....	Dec. 6, 1921.	Unfinished.....	1,138 50	383 16
1 Harmon street, from Randolph road about 200 feet northeasterly; Mattapan street, from Almont street about 90 feet south- easterly, Dorchester.	George J. Regan.....	Dec. 9, 1921.	Unfinished.....	1,645 73	1,109 58

Sewerage Works.—Concluded.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost as per Estimated Quantity, not Including Materials Furnished by City.	Amount Expended in 1921.
¹ Vanderbilt avenue, from Blake street about 180 feet northwesterly, Hyde Park.	George J. Regan.....	Dec. 9, 1921.	Unfinished.....	\$1,069 25	
¹ East Cottage street, from Pleasant street to Dawes street, Dorchester.	A. G. Tomasello & Sons.....	Dec. 27, 1921.	Unfinished.....	2,389 75	\$1,144 87
¹ Alley No. 817, from Gainsborough street, 370 feet westerly, Roxbury.	James Barletta.....	Dec. 29, 1921.	Unfinished.....	6,910 00	
¹ Rockland avenue, from Grampian way to Caspian way, Dorchester.	A. Cefalo.....	Jan. 4, 1922.	Unfinished.....	2,644 00	
¹ Wren street, from Saville street to Robbin street, West Roxbury.	D. Vitiello.....	Jan. 4, 1922.	Unfinished.....	3,394 75	
¹ Glendale road outlet, Section 1, and North avenue, West Roxbury.	A. Baruffaldi	Aug. 2, 1921.	Unfinished.....	51,131 50	8,305 18

¹ Advertised and awarded to lowest bidder.

* Advertised and awarded to second lowest bidder.

Miscellaneous.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
¹ Building catch-basins, manholes and minor drains in East Boston, Brighton and West Roxbury.	A. Grande.....	April 8, 1921.	Completed May 18, 1921....	\$1,374 25	\$2,366 14
Building catch-basins, manholes and minor drains in city proper, Roxbury and South Boston.	William Barrett & Co.....	May 24, 1921.	Completed Dec. 28, 1921....	7,227 25	9,605 00
¹ Cleaning sewers in Public Alley No. 704, from Waltham street and Union Park street, from Shawmut avenue to Tremont street, city proper.	Andrews Construction Company.	May 23, 1921.	Completed June 9, 1921....	744 00	732 00
¹ Repairs to boilers Nos. 4 and 5, pumping station, Calf Pasture, Dorchester.	Simpson's Patent Dry Dock Company.	June 13, 1921.	Completed June 16, 1921....	1,200 00	1,000 00
¹ Cleaning sewers in Porter street, from Bremen street to Lubec street and in Cottage street, from Maverick street to Porter street, East Boston.	James Barletta.....	Aug. 18, 1921.	Completed Sept. 11, 1921....	3,025 00	4,179 00
² Building catch-basins, manholes and minor drains in Dorchester, Brighton, West Roxbury and Hyde Park.	A. Cefalo.....	Aug. 26, 1921.	Completed Dec. 16, 1921....	6,980 75	7,512 55
¹ Building west shaft house, pumping station, Calf Pasture, Dorchester.	Archdeacon & Sullivan.....	Oct. 28, 1921.	Completed Dec. 21, 1921....	3,020 00	1,719 01
¹ Building catch-basins, manholes and minor drains in Boston.	William Barrett & Co.....	Dec. 5, 1921.	Unfinished.....	7,355 00	1,213 80

¹ Advertised and awarded to lowest bidder.² Advertised and awarded to second lowest bidder.

Cleaning Catch-basins.

District.	Awarded to	Dated.	Progress of Work.	Price Per Cubic Yard.	Amount Expended in 1921.
1 Districts Nos. 1 and 2, city proper, Back Bay, South End and Roxbury North.	Thomas D. Russo	Feb. 7, 1921.	Completed Jan. 31, 1922....	\$2 10	\$29,672 28
1 District No. 4, Charlestown and East Boston.....	M. H. Loonie.....	Feb. 7, 1921.	Completed Jan. 31, 1922....	2 50	11,627 44
1 Districts Nos. 5 and 6, Brighton and West Roxbury...	D. Vezzella & Co.	Feb. 7, 1921.	Completed Jan. 31, 1922....	{ * 2 33 } { † 2 24 }	7,263 55
1 District No. 7, Dorchester and Hyde Park.....	T. P. McMorow.....	Feb. 15, 1921.	Completed Sept. 24, 1921....	1 58	7,788 64
1 Districts Nos. 1 and 2.....	M. H. Loonie.....	Dec. 5, 1921.	Completed Dec. 21, 1921....	1 90	2,613 73

* Brighton.

† West Roxbury.

1 Advertised and awarded to lowest bidder.

SEWER AND SANITARY DIVISION.—SANITARY SERVICE.
Collecting and Removing House Offal.

District.	Awarded to	Dated.	Progress of Work.	Price Per Cubic Yard.	Amount Expended in 1921.
¹ District No. 1, East Boston.....	Hugh H. Cameron.....	Feb. 7, 1921.	Completed Jan. 31, 1922....	\$1 97	\$9,099 82
¹ Districts Nos. 2 and 3, Brighton and West Roxbury.....	Patrick F. Donovan.....	Feb. 7, 1921.	Completed Jan. 31, 1922....	{* 1 34 † 1 59}	17,976 29
¹ District No. 4, Dorchester.....	Michael H. Loonie.....	Feb. 7, 1921.	Completed Jan. 31, 1922....	2 00	52,075 20
¹ District No. 5, Hyde Park.....	Walter B. Downey.....	Feb. 7, 1921.	Completed Jan. 31, 1922....	1 10	3,044 53

¹ Advertised and awarded to lowest bidder.

* Brighton.

† West Roxbury.

Collecting and Removing Ashes, House Dirt, Store Dirt and Refuse.

District.	Awarded to	Dated.	Progress of Work.	Price Per Cubic Yard.	Amount Expended in 1921.
¹ District No. 1, East Boston.....	A. DeStefano & Co.	Feb. 7, 1921.	Completed Jan. 22, 1922....	\$0 54	\$30,063 06
¹ District No. 2, Brighton.....	Frank Shea & Co.	Feb. 7, 1921.	Completed Jan. 22, 1922....	90	48,089 38
¹ District No. 3, West Roxbury.....	Thomas E. Bryan.....	Feb. 7, 1921.	Completed Jan. 22, 1922....	45	14,673 04
¹ District No. 4, Dorchester.....	Joseph P. McCabe.....	Feb. 8, 1921.	Completed Jan. 22, 1922....	71½	116,578 96
¹ District No. 5, Hyde Park.....	M. McGinnis & Co.	Feb. 7, 1921.	Completed Jan. 22, 1922....	43	7,186 42

¹ Advertised and awarded to lowest bidder.

Contracts in Force Made in Previous Years.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
1 Disposal of refuse for ten years.	Boston Development and Sanitary Company.	Feb. 1, 1912.	Unfinished.	\$1,432,000 00	\$144,000 00

Miscellaneous.

DISTRICT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
1 Removing manure from stables and yards in the various divisions.	J. N. Smith & Co.	Feb. 15, 1921.	Completed Jan. 31, 1922. . .	* \$6 65	\$3,390 70

1 Advertised and awarded to highest bidder.

* Price per horse per year paid to city.

Miscellaneous.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
1 Dredging at refuse receiving station, Victory road, Dorchester.	Bay State Dredging and Contracting Company.	Mar. 11, 1921.	Unfinished.	\$1,850 00	\$325 23

1 Advertised and awarded to lowest bidder.

**SEWER AND SANITARY DIVISION.— STREET CLEANING AND OILING SERVICE.
Furnishing Carts for Watering and Oiling Streets.**

District.	Awarded to	Dated.	Progress of Work.	Price per Cart per Day.		Amount Expended in 1921.
				Two-horse.	Three-horse.	
1 No. 1, South Boston and Dorchester North...	E. J. Byrne.....	Mar. 29, 1921.	Completed Jan. 31, 1922...	\$7 74	\$7 74	\$8,804 25
1 No. 2, East Boston and Breed's Island.....	E. J. McHugh and Son....	Mar. 29, 1921.	Completed Jan. 31, 1922...	8 00	8 00	2,480 00
1 No. 3, Charlestown.....	Estate of P. O'Riorden....	Mar. 29, 1921.	Completed Jan. 31, 1922...	9 25	9 50	4,888 63
1 No. 4, Brighton.....	Bernard Malone.....	Mar. 29, 1921.	Completed Jan. 31, 1922...	9 40	9 40	4,291 10
1 No. 5, West Roxbury.....	J. Kelly Company.....	April 8, 1921.	Completed Jan. 31, 1922...	8 25	10 50	4,461 20
1 No. 6-9, Dorchester and Ashmont.....	J. P. McCabe.....	Mar. 29, 1921.	Completed Jan. 31, 1922...	7 40	7 40	6,571 20
1 No. 7, Roxbury South and Jamaica Plain....	M. A. Connors Company..	Mar. 29, 1921.	Completed Jan. 31, 1922...	7 00	7 00	5,533 50
1 No. 8, South End and Roxbury North.....	B. E. Grant Company....	April 8, 1921.	Completed Jan. 31, 1922...	7 35	7 35	4,604 79
1 No. 11, Hyde Park.....	T. H. Corrigan.....	Mar. 29, 1921.	Completed Jan. 31, 1922...	9 00	.....	4,169 25

¹ Advertised and awarded to lowest bidder.

Miscellaneous.

District.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
2 Furnishing combination motor, street sprinkling and flushing trucks.	B. E. Grant Company.	April 8, 1921.	Completed Jan. 31, 1922...	*\$24 50	\$58,432 50
3 Furnishing and operating electric sprinkler car for sprinkling and flushing streets.	American Car Sprinkler Company.	May 4, 1921.	Completed Oct. 31, 1921...	\$1,800 per month.	10,635 00

² Advertised and awarded to second lowest bidder.

³ Not advertised.

* Per day.

WATER DIVISION.— WATER SERVICE.
Laying and Relaying Water Pipes.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost as per Estimated Quantities, Including Material Furnished by City.	Amount Expended in 1921.
1 Middlesex street, from Dover street to Castle street; East Dedham street, from Harrison avenue to Albany street; Stoughton street, from Harrison avenue to Albany street, city proper.	General Construction Company, Inc.	April 22, 1921.	Completed May 21, 1921.....	\$3,500 00	\$1,994 90
1 Doone avenue and Morton street, Dorchester; Cowing street, Mendelsohn street and Rockland street, West Roxbury; Brackett and Mechanic streets, Brighton.	P. DeCristoforo.....	April 22, 1921.	Completed June 21, 1921.....	4,025 50	3,093 50
1 Austin street, Beaver street, Chestnut street, Hyde Park.	D. Vitiello.....	April 23, 1921.	Completed June 18, 1921.....	5,048 50	3,008 65
1 Allston Heights and Imrie road, Brighton; Sturgis road, West Roxbury; Rutledge road and Wood avenue, Hyde Park.	A. Cefalo.....	May 24, 1921.	Completed June 16, 1921.....	1,671 25	1,281 14
1 Clarendon street, from Stuart street to Stanhope street; Trinity place, from Stuart street to Stanhope street; Kneeland street, from Harrison avenue to Whitmore street; Whitmore street, from Harvard street to Kneeland street; West Newbury street, from Brookline avenue to Charlesgate East; Kenmore street, from West Newbury street to Commonwealth avenue; Commonwealth avenue, easterly of Brookline avenue; Stanhope street, from Morgan street to Trinity place, city proper.	M. DeSisto Company.....	May 24, 1921.	Completed Aug. 20, 1921.....	4,500 00	3,292 46

2 Everett street, from Orleans street, to Jeffries street; Lexington street, from Meridian street to Eagle street, East Boston.	Thomas Burke.....	June 22, 1921.	Completed Oct. 1, 1921.....	5,000 00	4,016 36
1 Auburn street, Beech street, Bellevue avenue, Congreve street, Cornell street, Hemlock street, Linden street, Liszt street, Metropolitan avenue, Washington street, West Roxbury, and Chester street, Dorchester.	P. DeCristoforo.....	June 30, 1921.	Completed Sept. 28, 1921.....	5,367 25	3,094 88
1 Banfield avenue, Corbet street, New England avenue and Selden street, Dorchester; Homfield avenue, Massasoit street, Mattaket street, Monponset street and Neponset river reservation, Hyde Park.	M. DeSisto Company.....	July 26, 1921.	Completed Nov. 22, 1921.....	7,124 90	4,299 73
1 South Bay avenue and Moore street, Roxbury; Bond street, from Hanson street to Milford street, city proper; Taylor street, from Milford street to Dwight street; Hanson street, from Shawmut avenue to Tremont street; Pembroke street, from Shawmut avenue to Tremont street; West Springfield street, from Washington street to Tremont street; West Concord street, from Washington street to Tremont street; Rutland street, from Washington street to Tremont street; Upton street, from Shawmut avenue to Tremont street; North Anderson street, from Cambridge street to Parkman street, city proper.	D. Vozzella Company.....	Aug. 2, 1921.	Completed Sept. 30, 1921.....	3,932 00	2,803 62
1 Perkins street, from Jamaica way to Prince street, West Roxbury.	Schena and DiPietro.....	Aug. 2, 1921.	Completed Nov. 5, 1921.....	.....	6,189 78
1 Georgia street, from Warren street to Montana street; Wayne street, from Blue Hill avenue to Maple street, Maple street, from Georgia street to Seaver street, Roxbury.	J. Williams & Co.	Oct. 21, 1921.	Completed Nov. 23, 1921.....	3,000 00	1,384 46
1 Dudley street, from Blue Hill avenue to Magnolia street, Dorchester.	P. DeCristoforo.....	Oct. 28, 1921.	Unfinished.....	4,511 50	1,354 84

1 Adverted and awarded to lowest bidder.

2 Not advertised.

Laying and Relaying Water Pipes.—Concluded.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost of Quantities, Including Material Furnished by City.	Amount Expended in 1921.
¹ Chester street, Sunner street, Hyde Park; Hallowell street, Wilmington avenue, Dorchester; Ashmore road, Hyde Park avenue, West Roxbury.	V. Schena.....	Nov. 8, 1921.	Completed Dec. 17, 1921.....	\$1,649 00	\$1,441 78
¹ Huntington avenue, Hyde Park; Washington Heights avenue, east, West Roxbury.	James Barletta.....	Nov. 30, 1921.	Unfinished.....	2,189 00	591 86
¹ Baneroff street, from Argyle street to railroad Dorchester; Minton place, northerly of Melvin side terrace, Dorchester; Tilton street, from Fellows street, Roxbury.	J. Williams & Co.	Dec. 27, 1921.	Unfinished.....	650 00	232 31

Miscellaneous.

CONTRACT.	Awarded to	Dated.	Progress of Work.	Estimated Cost.	Amount Expended in 1921.
² Pitometer water waste survey of the high service system of the city proper, Roxbury, and a greater part of Dorchester, also a portion of the low service system in the city proper.	The Pitometer Company.....	May 13, 1921.	Completed Nov. 1, 1921.....	\$20,000 00	\$20,000 00
² Pitometer water waste survey of the portion of the low service system of Roxbury, bounded by Charles river, Massachusetts avenue, Washington street, Dudley street, Roxbury street, Tremont street, Huntington avenue and town of Brookline.	The Pitometer Company.....	Nov. 29, 1921.	Completed Jan. 20, 1922...	6,000 00	6,000 00

1 Cleaning water pipes in Cottage street, from Marginal street to Maverick street; Maverick street, from Frankfort street to Jeffreys street; Marginal street, from Lewis street to Jeffreys street; Porter street, from Border street to Bremen street; Liverpool street, from Sumner street to Maverick street; Monmouth street, from Meridian street to Brooks street; Eutaw street, from Meridian street to White street, East Boston.	National Water Main Cleaning Company, Inc.	Aug. 16, 1921.	Completed Aug. 20, 1921. . .	3,200 00	3,299 88
Cleaning water pipes in North Beacon street, from Market street to Parsons street; Washington street, from Cambridge street to Corey road; Chestnut Hill avenue, from Washington street to South street; Sutherland road, from Cleveland circle and Commonwealth avenue, Brighton.	National Water Main Cleaning Company, Inc.	Oct. 24, 1921.	Completed Oct. 31, 1921.	3,680 00	3,750 72
1 Cleaning water pipes in Sumner street, from Maverick square to New street; Border street, from Sumner street to Concord street; Concord street, from Border street to Brooks street; Meridian street, from Central square to Concord street; White street, from Border street to Trenton street, East Boston.	National Water Main Cleaning Company, Inc.	June 24, 1921.	Completed July 9, 1921.	3,650 00	3,550 43
2 Constructing a building inclosing the high pressure fire pump equipment, Atlantic avenue, city proper.	Transit Department.	Aug. 10, 1921.	Unfinished.	7,000 00	13,118 57
1 Setting concrete meter boxes, Wards 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, and 17.	V. Grande.	Sept. 20, 1921.	Completed Oct. 31, 1921.	3,500 00	3,344 90
1 Repairing artificial stone sidewalk blocks.	DeStafano Brothers, Inc.	Oct. 18, 1921.	Unfinished.	2,200 00	370 86
1 Repairing artificial stone sidewalk blocks.	Angelo Grande.	June 2, 1921.	Completed July 16, 1921.	1,980 00	1,991 28

¹ Advertised and awarded to lowest bidder.

² Not advertised

The following table shows the snowfall and rainfall since 1915:

Snowfall (inches).

MONTH.	1915.	1916.	1917.	1918.	1919.	1920.	1921.
January.....	7.0	4.8	13.1	13.8	4.1	34.8	3.6
February.....	5.1	30.3	8.9	5.7	6.2	32.5	23.2
March.....	T.	33.0	12.9	12.8	2.4	11.0	
April.....	6.1	4.2	9.1	4.2	.....	2.0	
November.....	0.2	0.7	2.2	T.	0.2	1.8	1.6
December.....	6.7	9.5	7.0	8.4	2.9	5.5	4.4
Totals.....	25.1	82.5	53.2	44.9	15.8	77.6	32.8

Rainfall (inches).

MONTH.	1915.	1916.	1917.	1918.	1919.	1920.	1921.
January.....	6.33	1.23	2.82	3.11	3.62	2.72	2.24
February.....	3.47	5.18	2.67	2.30	2.66	5.88	2.64
March.....	T.	3.20	3.73	3.19	4.11	3.72	1.92
April.....	1.86	4.51	2.72	3.08	2.33	5.68	4.62
May.....	1.64	2.83	4.45	1.99	4.25	5.26	3.64
June.....	1.39	5.04	4.05	1.94	1.08	5.78	3.58
July.....	8.85	5.67	1.10	2.64	4.63	1.56	11.69
August.....	5.63	2.19	7.06	1.56	5.07	2.32	1.63
September.....	0.69	1.90	1.91	9.19	5.83	1.90	1.22
October.....	2.82	0.94	5.33	0.99	2.13	1.64	1.24
November.....	2.14	1.67	0.59	1.20	5.36	5.46	6.19
December.....	3.94	3.00	2.56	3.21	1.63	3.89	2.35
Totals.....	38.76	37.36	38.99	34.40	42.70	45.81	42.96

In this rainfall is included the precipitation during the winter months which equal one tenth of an inch to one inch of snowfall.

Area of Pavements.

The following table shows Area in Square Yards and Character of Pavements on Accepted Streets, February 1, 1922.

District.	Sheet Asphalt.	Asphalt Concrete.	Granite Block.	Wood Block.	Plank on Bridges.	Brick.	Concrete.	Macadam.	Gravel.	Not Graded.	Totals.
Year 1920 report.....	703,022	500,698	2,510,383	208,457	38,146	112,937	26,073	6,538,199	476,179	116,735	11,410,829
Per cent.....	6.69	4.91	22.00	2.35	0.34	0.99	0.23	57.30	4.17	1.02	100.00
February 1, 1922.											
City Proper.....	331,847	177,364	931,614	191,192	7,686	9,970	1,752	351,349	1,839	10,859	2,015,472
Charlestown.....	6,518	.....	274,697	2,029	4,020	756	672	153,538	1,129	511	443,870
East Boston.....	49,048	24,705	139,340	187	1,609	771	.....	447,030	13,148	.....	676,438
South Boston.....	31,490	31,194	428,950	13,462	5,624	3,255	.....	386,293	19,113	40,103	959,484
Roxbury.....	106,460	107,305	384,255	25,245	1,417	50,373	2,111	951,663	20,695	945	1,650,469
West Roxbury.....	73,743	141,279	157,696	583	1,833	.....	4,814	1,259,971	68,808	20,367	1,729,094
Dorchester.....	75,469	120,973	246,738	43,424	6,136	48,639	1,735	1,728,161	82,448	8,087	2,361,810
Brighton.....	112,749	111,194	98,459	3,675	3,863	17	15,302	615,046	43,756	5,649	1,009,710
Hyde Park.....	14	32,381	12,060	777	4,495	.....	.....	338,990	214,378	9,567	612,662
Totals.....	* 787,938	† 746,395	‡ 2,673,809	280,574	36,683	113,781	§ 26,386	|| 6,232,041	465,314	96,088	11,459,009
Per cent.....	6.88	6.51	23.33	2.45	0.32	0.99	0.23	54.39	4.06	0.84	100.00

NOTE.— In the above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. Territory annexed from Brookline is included in city proper.

* Of this amount 470 square yards is Unionite.

† Of this amount 774 square yards is asphalt block, 373,204 square yards is bitulithic, 1,614 square yards is Endurite, 959 square yards is Filbertine, 20,628 square yards is Sinasco and 258,426 square yards is cobble.

‡ Of this amount 946 square yards is Blome Granitoid concrete blocked pavement and 836 square yards is Solimac.

§ Of this amount 2,333,347 square yards is bituminous macadam.

|| Of this amount 31,543 square yards public alleys included in this table.

282,150 square yards public streets in charge of Park Department included in this table.

62,661 square yards public streets in charge of the Commonwealth of Massachusetts included in this table.

In addition to this table there are 6,719 square yards of accepted footways.

Length of Pavements.

The following Table Shows Length in Miles and Character of Pavements on Accepted Streets, February 1, 1922.

District.	Sheet Asphalt.	Asphalt Concrete.	Granite Block.	Wood Block.	Plank on Bridges.	Brick.	Concrete.	Macadam.	Gravel.	Not Graded.	Totals.
Year 1920 report.....	43.88	27.68	105.23	11.06	1.76	5.39	1.86	375.28	30.38	2.28	604.80
Per cent.	7.25	4.58	17.40	1.83	0.29	0.89	0.31	62.05	5.02	0.38	100.00
February 1, 1922.											
City Proper.....	19.70	7.63	39.80	7.81	0.32	0.55	0.20	19.73	0.22	0.32	96.28
Charlestown.....	0.41	.....	11.99	0.08	0.17	0.03	0.03	10.67	0.10	.....	23.48
East Boston.....	2.17	0.89	6.51	0.01	0.10	0.04	.....	22.00	0.63	.....	32.35
South Boston.....	2.51	1.71	17.82	0.78	0.24	0.13	.....	20.58	0.86	1.46	46.09
Roxbury.....	6.06	5.82	15.23	1.12	0.05	2.69	0.14	58.28	1.57	0.05	91.01
West Roxbury.....	5.03	7.35	3.63	.....	0.09	.....	0.32	79.65	3.66	0.36	100.09
Dorchester.....	4.82	6.83	9.86	1.76	0.25	1.98	0.09	102.92	5.14	0.08	133.73
Brighton.....	4.80	4.96	0.78	0.08	0.21	.....	1.04	33.31	2.99	.....	48.17
Hyde Park.....	.....	1.44	0.04	0.05	0.25	.....	.....	18.96	14.15	0.24	35.13
Totals.....	* 45.50	† 36.63	‡ 105.66	11.69	1.68	5.42	\$ 1.82	‡ 366.10	29.32	2.51	606.33
Per cent.	7.50	6.04	17.43	1.93	0.28	0.89	0.30	60.38	4.84	0.41	100.00

Note.— In the above table the city is subdivided substantially on the boundary lines between the districts as they existed when annexed to Boston. annexed from Brookline is included in city proper.

* Of this amount 0.02 mile is Unionite.

† Of this amount 0.02 mile is asphalt block, 17.55 miles is bitulithic, 0.06 mile is Filbertine, 1.18 miles is Simasco, 13.71 miles is Topeka.

‡ Of this amount 0.12 mile is cobble, and 40.47 miles is granite block paving on concrete base.

§ Of this amount 0.06 mile is Blonie Granitoid concrete blocked pavement and 0.04 mile is Sollamies.

|| Of this amount 128.03 miles is bituminous macadam.

5.96 miles public alleys included in this table.

6.70 miles public streets in charge of Park Department included in this table.

2.04 miles public streets in charge of the Commonwealth of Massachusetts included in this table.

In addition to this table there are 1.31 miles of accepted footways.

Territory

The following changes in pavement were made during the year:

0.01 mile or 224 square yards sheet asphalt changed to asphalt concrete.
 0.00 mile or 15 square yards sheet asphalt changed to Topeka.
 0.01 mile or 105 square yards sheet asphalt changed to granite block.
 0.00 mile or 43 square yards sheet asphalt changed to wood block.
 0.00 mile or 19 square yards sheet asphalt changed to brick.
 0.04 mile or 422 square yards bitulithic changed to sheet asphalt.
 0.00 mile or 29 square yards bitulithic changed to asphalt concrete.
 0.00 mile or 20 square yards bitulithic changed to Simasco.
 0.00 mile or 4 square yards bitulithic changed to Topeka.
 0.01 mile or 152 square yards bitulithic changed to granite block.
 0.00 mile or 16 square yards Topeka changed to wood block.
 0.00 mile or 6 square yards cobble changed to granite block.
 0.00 mile or 65 square yards granite block changed to sheet asphalt.
 0.13 mile or 3,663 square yards granite block changed to asphalt concrete.
 0.03 mile or 641 square yards granite block changed to bitulithic.
 0.02 mile or 413 square yards granite block changed to Simasco.
 0.07 mile or 512 square yards granite block changed to Topeka.
 0.66 mile or 13,284 square yards granite block changed to wood block.
 0.04 mile or 766 square yards granite block changed to brick.
 0.00 mile or 8 square yards granite block changed to macadam.
 0.09 mile or 3,437 square yards wood block changed to granite block.
 0.01 mile or 316 square yards plank on bridges changed to granite block.
 0.07 mile or 964 square yards plank on bridges changed to wood block.
 0.01 mile or 132 square yards brick changed to granite block.
 0.01 mile or 197 square yards concrete changed to asphalt concrete.
 0.08 mile or 1,250 square yards Roman Road changed to sheet asphalt.
 1.37 miles or 21,079 square yards macadam changed to sheet asphalt.
 3.28 miles or 71,192 square yards macadam changed to asphalt concrete.
 0.00 mile or 45 square yards macadam changed to bitulithic.
 1.16 miles or 20,195 square yards macadam changed to Simasco.
 2.95 miles or 42,140 square yards macadam changed to Topeka.
 1.05 miles or 115,199 square yards macadam changed to granite block.
 0.01 mile or 615 square yards macadam changed to wood block.
 0.00 mile or 17 square yards macadam changed to brick.
 0.05 mile or 1,713 square yards macadam changed to concrete.
 0.01 mile or 134 square yards gravel changed to sheet asphalt.
 0.60 mile or 9,356 square yards gravel changed to asphalt concrete.
 0.25 mile or 4,021 square yards gravel changed to bitulithic.
 0.41 mile or 7,540 square yards gravel changed to Topeka.
 0.08 mile or 454 square yards gravel changed to granite block.
 0.62 mile or 9,847 square yards gravel changed to macadam.
 0.06 mile or 1,369 square yards not graded changed to sheet asphalt.
 0.08 mile or 5,582 square yards not graded changed to asphalt concrete.
 0.00 mile or 19,788 square yards not graded changed to Topeka.
 0.10 mile or 2,543 square yards not graded changed to granite block.
 0.00 mile or 1,156 square yards not graded changed to wood block.
 0.00 mile or 8,068 square yards not graded changed to macadam.
 0.00 mile or 3,668 square yards not graded changed to gravel.

Streets laid out or discontinued by the Street Commissioners during the year show:

Sheet asphalt increased 0.08 mile or 1,267 square yards.
 Asphalt concrete increased 0.00 mile or 547 square yards.
 Bitulithic increased 0.00 mile or 29 square yards.
 Topeka increased 0.00 mile or 31 square yards.
 Granite block increased 0.00 mile or 199 square yards.

Brick increased 0.00 mile or 174 square yards.
 Concrete increased 0.00 mile or 12 square yards.
 Macadam increased 0.00 mile or 172 square yards.
 Gravel increased 0.96 mile or 17,247 square yards.
 Not graded increased 0.51 mile or 20,961 square yards.

The widening and laying out as a State Highway of Washington street, from the northeasterly line of West Roxbury Parkway to the southeasterly line of La Grange street by the State Department of Public Works, Division of Highways, November 1, 1921, in accordance with Chapter 81 of the General Laws shows:

Not graded increased 0.00 mile or 2,301 square yards.

Corrections on account of revision and other causes show:

Sheet asphalt decreased 0.00 mile or 264 square yards.
 Bitulithic decreased 0.00 mile or 2 square yards.
 Topeka increased 0.00 mile or 158 square yards.
 Cobble increased 0.00 mile or 888 square yards.
 Granite blocks increased 0.02 mile or 59,353 square yards.
 Wood block decreased 0.02 mile or 524 square yards.
 Plank on bridge decreased 0.00 mile or 183 square yards.
 Concrete increased 0.00 mile or 35 square yards.
 Macadam increased 0.07 mile or decreased 52,058 square yards.
 Gravel decreased 0.05 mile or 428 square yards.
 Not graded decreased 0.04 mile or 1,735 square yards.

Public streets laid out or discontinued by the Street Commissioners during the year show pavements increased 1.55 miles or 40,639 square yards.

The widening and laying out as a State Highway of Washington street from the northeasterly line of West Roxbury Parkway to the southeasterly line of La Grange street by the State Department of Public Works, Division of Highways, November 1, 1921, in accordance with chapter 81 of the General Laws shows pavements increased 0.00 mile or 2,301 square yards.

Corrections to previous measurements on account of revision and other causes show pavements decreased 0.02 mile or increased 5,240 square yards.

Total net increase 1.53 miles or 48,180 square yards.

1859.....	111.50	1878.....	340.39	1886.....	383.55
1871.....	201.32	1879.....	345.19	1887.....	390.30
1872.....	207.40	1880.....	350.54	1888.....	392.72
1873.....	209.24	1881.....	355.50	1889.....	397.84
1874.....	313.90	1882.....	359.85	1890.....	404.60
1875.....	318.58	1883.....	367.99	1891.....	409.60
1876.....	327.50	1884.....	374.10	1892.....	434.59
1877.....	333.20	1885.....	379.60	1893.....	443.34

1894.....	447.65	1904.....	500.39	1914.....	572.85
1895.....	452.12	1905.....	502.20	1915.....	584.55
1896.....	456.11	1906.....	502.80	1916.....	593.62
1897.....	459.12	1907.....	510.04	1917.....	596.19
1898.....	471.19	1908.....	511.60	1918.....	601.12
1899.....	479.47	1909.....	514.28	1919.....	601.07
1900.....	489.55	1910.....	518.63	1920.....	603.71
1901.....	491.85	1911.....	521.21	1921.....	604.80
1902.....	496.90	1912.....	561.36	1922.....	606.33
1903.....	499.85	1913.....	567.51		

LIST OF PERSONAL PROPERTY ON HAND JANUARY 31,
1922, AND ESTIMATED VALUE OF SAME, ALLOWING
FOR DEPRECIATION.

Central Office.

1 automobile	\$1,500 00
2 robes	20 00
Office supplies	500 00
	<hr/>
	\$2,020 00

Bridge Service.

5 robes	\$15 00
2 automobiles	1,600 00
3 auto trucks	2,500 00
Supplies, tools	7,000 00
	<hr/>
	\$11,115 00

Ferry Service.

7 ferryboats	\$1,025,000 00
Supplies, tools, machinery, etc.	28,000 00
	<hr/>
	\$1,053,000 00

Lighting Service.

9,713 lamp posts	\$97,130 00
300 lamp brackets	300 00
1 automobile	200 00
1 robe	10 00
1 typewriter	50 00
	<hr/>
	\$97,690 00

Paving Service.

1 large concrete mixer	\$2,000 00
6 small concrete mixers	1,500 00
3 bituminous mixers	6,000 00
	<hr/>
Carried forward	\$9,500 00

<i>Brought forward</i>	\$9,500 00
224 harnesses	2,240 00
261 blankets	261 00
23 buggies	345 00
12 pungs	240 00
9 sleighs	90 00
13 jiggers	520 00
23 wagons	920 00
11 street watering carts	1,375 00
4 road scrapers	1,000 00
77 dump carts	6,160 00
106 horses	26,500 00
11 snow levelers	330 00
5 section rollers	200 00
11 steam rollers	15,400 00
32 desks	320 00
860 picks	430 00
1,050 shovels	525 00
8 road machines	2,000 00
8 automobiles	3,600 00
1 truck	250 00
3 gasolene tractors	3,800 00
3 street sweeping machines	390 00
Supplies, tools, machinery, surveying instruments, engineers' supplies, etc.	53,000 00
	<hr/>
	<u>\$129,396 00</u>

Sanitary Service.

7 automobiles	\$2,800 00
1 auto truck	300 00
284 horse blankets	284 00
13 buggies	325 00
202 carts	20,200 00
242 shovels	121 00
244 harnesses	4,880 00
192 horses	48,000 00
98 wagons	8,820 00
21 desks	210 00
6 sleighs	60 00
94 pungs and sleighs	1,880 00
Supplies, tools, machinery, etc.	14,000 00
	<hr/>
	<u>\$101,880 00</u>

Street Cleaning and Oiling Service.

7 automobiles and 3 trucks	\$2,500 00
129 carts	12,900 00
	<hr/>
<i>Carried forward</i>	\$15,400 00

<i>Brought forward</i>	\$15,400 00
8 buggies	120 00
37 street watering carts	3,700 00
19 wagons	1,520 00
232 harnesses	4,640 00
183 horses	45,750 00
40 street sweeping machines	5,200 00
9 flushing machines	3,150 00
133 push carts	1,330 00
1,567 street sweeping brooms	1,567 00
837 shovels	418 00
944 picks	472 00
15 snow ploughs and 5 road machines	2,800 00
3 Elgin street sweeping machines	12,500 00
1 tractor snow plough	3,400 00
Supplies, tools, machinery, etc.	10,000 00
	<hr/>
	\$111,967 00

Sewer Service.

406 picks	\$203 00
6 automobiles	1,500 00
2 trucks	500 00
29 horses	7,250 00
23 wagons	1,150 00
5 buggies	100 00
17 carts	1,360 00
47 harnesses	470 00
50 blankets	50 00
3 sleighs	30 00
407 shovels	203 00
Derricks, centrifugal pumps, dynamos, boilers, engineers' tools, machinery, instruments and supplies, etc.	340,000 00
	<hr/>
	\$352,816 00

Water Service.

11 automobiles	\$20,000 00
22 horses	5,500 00
26 wagons	1,300 00
1 buggy	20 00
2 sleighs	30 00
9 pungs	180 00
Shovels, picks and miscellaneous stock, consisting of all kinds and sizes of iron water pipe, meters, hydraulic machinery, boilers, etc.	435,000 00
	<hr/>
Total	\$462,030 00

Real Property in Charge of the Bridge and Ferry Division.—(Bridge Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
SOUTH BOSTON.				
170 Broadway extension, South Boston; 5,510 feet of land on Broadway extension and Dorchester avenue, on which is a brick building containing an office, workshop and stable; 1,176 square feet of this land is occupied by a convenience station. The equipment was removed to 710 Albany street in 1918.	\$1 00	\$5,500 00	\$24,500 00	\$30,000 00
LOCATION.				
Estimated Value of Buildings.				
Total Value.				
BROADWAY BRIDGE.				
Draw house and one storehouse.....	Draw house, \$800; storehouse, \$200.....			\$1,000 00
CHARLESTOWN BRIDGE.				
Draw house, electrical power room and six storehouses *.....	Draw house, \$3,000; power room, \$1,000....			4,000 00
CHELSEA BRIDGE NORTH.				
Draw house.....	Draw house, \$2,500.....			2,500 00
CHELSEA BRIDGE SOUTH.				
Draw house, engine house and surface draw house.....	Draw house, \$2,500.....			2,500 00
CHELSEA STREET BRIDGE.				
Draw house.....	Draw house, \$1,800.....			1,800 00

CONGRESS STREET BRIDGE.		
Draw house, storehouse and two shelter houses.....	Draw house, \$1,000; storehouse, \$100; shelter house, \$500.	1,600 00
DOVER STREET BRIDGE.		
Draw house and two shelter houses.....	Draw house, \$1,000; shelter house, \$500.....	1,500 00
DORCHESTER AVENUE BRIDGE.		
Draw houses, tool sheds, two motor houses and one controller house.....	Draw house, \$1,000; motor houses, \$300; tool house, \$200; controller house, \$25.	1,525 00
GRANITE AVENUE BRIDGE.		
Tool house and controller house. In charge of Granite Avenue Bridge Commission.....	Tool house, \$100; controller house, \$100.....	200 00
Draw house and engine house.....	Draw house, \$1,000; engine house, \$500.....	1,500 00
L STREET BRIDGE (Now Called Summer Street).		
Draw house and engine house.....	Draw house, \$1,000; engine, \$500.....	1,500 00
MALDEN BRIDGE.		
Draw house owned by Boston Elevated Railway Company. Some maintenance charges borne by City of Boston.		
MERIDIAN STREET BRIDGE.		
Draw house and tool house.....	Draw house, \$2,500; tool house, \$100.....	2,600 00
NEPONSET BRIDGE.		
Tool house. Control of this bridge taken over by Metropolitan Park Commission October 28, 1918.		
NORTHERN AVENUE BRIDGE.		
Draw house, containing a power room and storage room for compressed air and tool house.....	Draw house, \$4,500; tool house, \$100.....	4,600 00

* Five leased to M. P. Coleman for \$2,697 per year, lease expires January 31, 1923.

Real Property in Charge of the Bridge and Ferry Division.— (Bridge Service.) — Concluded.

LOCATION.	Estimated Value of Buildings.	Total Value.
<p style="text-align: center;">SUMMER STREET BRIDGE OVER FORT POINT CHANNEL.</p> <p>Draw house, controller house, two shelter houses and tool house.....</p>	<p>Draw house, \$3,000; controller house, \$250; shelter houses, \$500; tool house, \$100.</p>	<p>\$3,850 00</p>
<p style="text-align: center;">WARREN BRIDGE.</p> <p>Stable, draw house, containing an engine room and boiler room and a tool house.....</p> <p>Warren avenue, between Water street and the railroad, used by Election Department for storage of election booths.</p>	<p>\$3,500.....</p>	<p>3,500 00</p>
<p style="text-align: center;">WESTERN AVENUE BRIDGE TO WATERTOWN.</p> <p>Tool house.....</p>	<p>\$200.....</p>	<p>200 00</p>

Real Property in Charge of the Bridge and Ferry Division.— (Ferry Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
South Ferry, East Boston side, located at the termination of Lewis street. On these premises are one headhouse with canopies, one workshop for carpenters, machinists and blacksmiths, one storehouse, one coal pocket, three piers which form the two slips, two drops and tanks, one wharf and dock.	* 33,196 at \$1 75 † 4,700 at 2 00 * 16,879 at 1 50 † 2,000 at 1 75	\$96,300 00	\$43,000 00	\$139,300 00
South Ferry, Boston side, located at the termination of Eastern avenue. On these premises are one headhouse with canopies, one gate room, three piers which form the two slips and two drops and tanks.	25,500 at 2 00	51,100 00	74,900 00	126,000 00
North Ferry, East Boston side, located at the termination of Border street. On these premises are one headhouse with canopies, one boiler, one coal pocket, three piers which form the two slips and two drops and tanks.	† 18,876 at 2 00 * 42,262 at 1 75	111,800 00	58,000 00	169,800 00
North Ferry, Boston side, located at the termination of Battery street. On these premises are one headhouse with canopies, one gate room, three piers which form the two slips and two drops and tanks.	† 10,511 at 3 50 * 34,660 at 2 00	106,000 00	69,000 00	175,000 00
† Eastern avenue, No. 60, adjoining South Ferry Headhouse, Boston side. Upon this lot is a house and office building owned by Patrick J. Connolly.				

* Wharves and docks.

† Solid.

† Land rented to Patrick J. Connolly for \$200 per year.

Real Property in Charge of the Highway Division.— (Paving Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
SOUTH BOSTON.				
Columbia road, corner Hamlin street, lot of land used for storage purposes, containing 6,710 square feet, owned by Frank E. Briggs and rented from Charles F. Mooney, agent.	\$0 25	\$1,800 00	.....	\$1,800 00
350-354 West Second street, stable, shed and office building on land containing 6,000 square feet, rented from M. J. Mahoney.	45	2,700 00	\$1,100 00	3,800 00
Columbia road, corner Douglas street, lot of land used for storage purposes, containing 3,680 square feet, rented from Pauline Lawrence.	40	1,500 00	.....	1,500 00
East Fifth street, between G and H streets, lot of land used for storage purposes, containing 28,387 square feet, rented from J. J. Sullivan.	30	8,500 00	.....	8,500 00
EAST BOSTON.				
East Eagle street, corner Condor street, sheds, stable and office building erected by the city on wharf property, containing 61,636 square feet, owned by Alice M. Coleman and rented for the sum of \$1,800 a year. This property is used jointly with the Sewer, Sanitary, Street Cleaning and Oiling Services and Water Service.*	.....	24,700 00	6,800 00	31,500 00
CHARLESTOWN.				
Medford street, foot of Elm street, wharf property containing 44,700 square feet (Sur. Prog. 968), owned by the city. Upon this lot are a shed, stable and office building.	75	33,400 00	8,600 00	42,000 00
BRIGHTON.				
Chestnut Hill avenue, ledge lot containing 569,776 square feet (L. 1,630), purchased in 1882 by the city. Upon this lot are stone crusher, stable, shed and office building and oil plant.	15	79,800 00	5,500 00	85,300 00
WEST ROXBURY.				
Child street, lot of land containing 43,024 square feet, owned by the city. Upon this lot are sheds, stable and office building. (See Sewer Service.)	45	19,300 00	3,500 00	22,800 00
Minton street, near Canterbury street, lot of land containing 14,484 square feet, owned by the city and used for storage purposes.	10	1,400 00	.....	1,400 00
Centre street, rear of 1932, lot of land used for storage purposes, hired for \$180 per year.				

DORCHESTER.					
Hancock street, opposite Bowdoin street, lot of land known as the almshouse lot, containing 104,132 square feet, which belonged to the town of Dorchester at the time of annexation. Upon this land are two stables, office, shed and tool house.	18	19,000 00	8,000 00	27,000 00	
Downer avenue, lot of land containing 35,300 square feet, was purchased in 1871 to protect the almshouse lot. (Seven lots.)	8c. and 10c.	3,300 00	.....	3,300 00	
Codman street, ledge lot containing 299,000 square feet, was purchased in 1870. Upon this lot are a stable and tool house; 111,423 square feet additional bought by the city in 1907.	05	21,700 00	2,000 00	23,700 00	
ROXBURY.					
Highland street, lot of land containing 195,129 square feet, owned by the city. Upon this lot is a large brick stable erected in 1873-74 and used by the Sanitary, Street Cleaning and Paving Services; also a brick building used as a blacksmith shop, and a shed for storage purposes.† (See Sanitary Service.)					
SOUTH END.					
Albany street, No. 636, opposite Sharon street, wharf lot, containing 63,200 square feet, owned by the city. Upon this lot are stables, office, blacksmith and carpenter shops.	1 25	79,000 00	3,800 00	82,800 00	
Wharf lot adjoining the above, containing 65,535 square feet, owned by the city and used for storage purposes and receiving station for Sanitary Service. These wharves are owned by the city.	90	56,700 00	7,300 00	64,000 00	
Massachusetts avenue, near Magazine street, lot of land, containing 1,452,628 square feet, rented from New York, New Haven & Hartford Railroad Company and used for storage purposes.†	80	1,162,100 00	27,500 00	1,189,600 00	
NORTH END.					
Commercial street, No. 521, wharf lot, containing 23,667 square feet, owned by the city. Upon this lot is an office building. Building destroyed January 15, 1919, by tank accident.	2 49	79,900 00	1,000 00	80,900 00	
HYDE PARK.					
Hyde Park avenue, lot containing 16,541 square feet, owned by the city, used in part by police station. On this lot are an office, stable and shed.‡	1 00	9,900 00	11,500 00	21,400 00	

* This price to be increased from March 1, 1920, to \$2,400 a year.

† These estates are only partly occupied by the City of Boston.

‡ These estates are only partly occupied by the Paving Service.

Real Property in Charge of the Sewer and Sanitary Division.— (Sanitary Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
SOUTH BOSTON.				
H and Second streets, stable and sheds, containing 8,590 square feet. Leased from E. M. & M. J. Mahoney.	30c. and 40c., land 8,590 feet.....	\$2,900 00	\$2,500 00	\$5,400 00
CHARLESTOWN.				
263 Rutherford avenue. (See Street Cleaning and Oiling Service.)				
DORCHESTER.				
Victory road (formerly South street), near Freeport street, lot of land taken in 1912 for refuse transfer station. Completed January 4, 1913.	37,900 feet valued as part of 78,458 feet at \$0.08	About \$7,600 00	67,000 00	74,000 00
ROXBURY.				
Massachusetts avenue and Southampton street, weighing shed, containing about 2,300 square feet of land, leased from the Boston Consolidated Gas Company at \$10 per month.				
Ward street, northerly side, near New York, New Haven & Hartford Railroad, containing 12,500 square feet. (See letter of Street Commissioners, January 6, 1914.)	35,553 square feet at \$0.30.....	About \$10,700 00	20,000 00	30,700 00
Highland street, formerly almshouse, containing 195,129 square feet. Upon this lot are stable, sheds, carriage house. A part of this stable and lot is used by the Paving Service and Street Cleaning and Oiling Service.	.....	78,100 00	51,000 00	129,100 00

SOUTH END.

Albany street, No. 650, containing 90,800 square feet. Upon this lot are stables, buildings, sheds, veterinary hospital, blacksmith, wheelwright, paint and harnessmaker's shops, also a horseshoeing shop used in part by the Street Cleaning and Sewer Service.

Albany street, No. 636, refuse transfer station, which was completed March 21, 1913.*

WEST END.

North Grove street, stables, sheds, etc., containing 45,152 square feet. On May 11, 1896, a horseshoeing shop was established, used in part by the Street Cleaning and Oiling Service.

NORTH END.

Fort Hill Wharf, containing 20,750 square feet and used as a dumping station for the city's garbage and refuse. On this wharf a refuse transfer station was erected in 1912.

SPECTACLE ISLAND.

Four parcels of land, containing 266,500 square feet, taken for a refuse destructor site. Upon this site a refuse destruction plant has been erected by the Boston Development and Sanitary Company.

.....	114,000 00	29,000 00	143,000 00
\$2.25.....	101,600 00	62,500 00	164,100 00
14,150 feet at \$12; 2,800 feet at \$3; 3,800 feet at \$1.50.	183,900 00	65,000 00	248,900 00
.....	18,100 00	90,400 00	108,500 00

* See Paving Service.

Real Property in Charge of the Sewer and Sanitary Division.— (Street Cleaning and Oiling Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
SOUTH BOSTON.				
Yard and stable at 124 Old Harbor street, corner of Columbia road, leased by the city from D. W. Creed at \$75 per month.				
EAST BOSTON.				
Part of stable on East Eagle street. (See Paving Service.)				
CHARLESTOWN.				
Stable at 263 Rutherford avenue, and office building, used in common with Sanitary Service. Stable at 245-249 Rutherford avenue, now occupied under lease for \$600 per year by Timothy F. Callahan.	\$0 60	\$22,100 00	\$8,300 00	\$30,400 00
ROXBURY.				
Stable on Highland street. (See Sanitary Service.)				
SOUTH END.				
Part of stable at 650 Albany street. (See Sanitary Service.)				
WEST END.				
Part of stable on North Grove street. (See Sanitary Service.)				
DORCHESTER.				
Gibson street, land and buildings containing stable and sheds, used by Sanitary and Sewer Services, contains 21,250 square feet. (See Water Service.)	.....	7,400 00	5,000 00	12,400 00

Real Property in Charge of the Sewer and Sanitary Division.— (Sewer Service.)

LOCATION.	Estimated Value of Land.	Estimated Value of Buildings.	Total Value.
SOUTH BOSTON.			
Summer street, underground pumping station.			
EAST BOSTON.			
East Eagle street, yard and buildings leased from Renton Whidden. (See Paving Service.)			
BRIGHTON.			
Western avenue. (See Water Service.)			
WEST ROXBURY.			
Child and South streets, yards and building occupied in common with Paving Service. (See Paving Service.)			
DORCHESTER.			
Gibson street, land. (See Street Cleaning Service.)			
Old Harlor Point, land and buildings, including pumping station, 22½ acres; 45,729 square feet, more or less, on the westerly side of Mt. Vernon street, exchanged with the Boston Consolidated Gas Company for 51,000 square feet, more or less, on the easterly side of Mt. Vernon street.	\$196,000 00	\$617,500 00	\$813,500 00
SOUTH END.			
* Albany street, No. 678, yard and buildings, 50,000 square feet.....	66,400 00	4,000 00	70,400 00
Union Park street, corner Albany street, pumping station, containing 4,167 square feet of land.....	6,300 00	70,000 00	76,300 00
HYDE PARK.			
Milton avenue, pumping station.			
BACK BAY FENS.			
Gatehouse.....	.....	12,000 00	12,000 00
MOON ISLAND AND SQUANTUM.			
Land, buildings and reservoirs. Upland in Squantum, 19.5 acres; upland on Moon Island, 37.65 acres; flats about Moon Island and Squantum, 131 acres.			

* 8,000 feet of this lot formerly used by Lighting Service.

Real Property in Charge of the Water Division.— (Water Service.)

LOCATION.	ESTIMATED VALUE OF LAND.		Estimated Value of Buildings.	Total Value.
	Per Foot.	Total.		
EAST BOSTON.				
* Eagle Hill reservoir, with a capacity of 5,600,000 gallons. Area of property, 220,875 square feet..	\$0 30	\$66,300 00	\$400 00	\$66,700 00
High service tank, Orient Heights, capacity 122,000 gallons. Area of property, 11,394 square feet..	10	1,100 00	5,000 00	6,100 00
CHARLESTOWN.				
Medford street, corner Tufts street, containing 13,050 square feet. Upon this lot are a workshop and stable.	50	6,500 00	4,000 00	10,500 00
BRIGHTON.				
Western avenue, lot of land, containing 92,408 square feet. Upon this lot is an office building, workshop and stable. Also used by the Sewer Service.	.....	9,200 00	5,500 00	14,700 00
WEST ROXBURY.				
Williams street, Jamaica Plain, Nos. 110-112, land and buildings used as district headquarters, rented from Thomas Minton for \$600 per year.				
Washington street and Metropolitan avenue, lot of land. Area of property, 12,895 square feet.....	14	1,800 00	7,000 00	8,800 00
DORCHESTER.				
Gibson street, in rear of lot occupied by Street Cleaning Service, land and buildings, 3,840 square feet.	.....	1,000 00	1,500 00	2,500 00
ROXBURY.				
Heath and Lawn streets, strip of land containing 5,707 square feet (pipe route).....	25	1,425 00	.....	1,425 00

SOUTH END.

Albany street, No. 710, containing 98,100 square feet. wharf and pipe yard.	Upon this lot are a machine shop, stable	91,000 00	117,000 00	208,000 00
HYDE PARK.				
Fairmount reservoir, with a capacity of 1,500,000 gallons †.....	} 04	5,800 00	15,000 00	20,800 00
Fairmount standpipe, with a capacity of 500,000 gallons. Area of property, 114,314 feet.....				
Water street, pumping station and lot of land. Area of property, 884,758 feet.....	02½	22,100 00	4,000 00	26,100 00
Winthrop street, No. 48. Upon this lot are a building, two sheds and a stable. Leased from the Waterman Company, for \$250 per year.	.....	.....	700 00	700 00
Sprague street, bordering Sprague pond, lot of land containing 16,128 square feet.....	.....	500 00	.....	500 00
WINTHROP.				
Strip of land at Point Shirley containing 7,725 square feet.....	01	77 25	.....	77 25
DEBHAM.				
Paradise lane, containing 12.5 acres. Upon this lot is a pumping station.....	.....	7,000 00	2,000 00	9,000 00

* Transferred to Park Department, April 5, 1920.

† 206,020 square feet in Boston, balance in Milton.

EMPLOYEES.

The following tables show the number of requisitions made on the Civil Service Commission for men; the number appointed, reinstated, died, resigned, discharged and retired; also the grade and number of employees in the department:

Requisitions made on the Civil Service Commission	30
Number of men called	90
Number of men certified	227
Number of men appointed	104
Provisional appointments made permanent	5
Promotions allowed	15
Reinstatements allowed	* 12
Number of men discharged	2
Number of men resigned	51
Number of men died	53
Number of Civil War veterans retired	8
Number of laborers retired	15
Number of transfers to other departments	18
Number of transfers from other departments	11
Number of Civil War retired veterans died	8
Number of retired laborers died	38

The records of the department show that there are now 3,067 persons eligible for employment in the several divisions and of that number 3,011 were upon the January, 1922, pay rolls.

* Eight of these men were on the eligible list February 1, 1921.

Grade and Number of Employees.

TITLE.	SERVICES.									
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.	Total.
Commissioner.....	1	...	...	...	...	...	...	...	...	1
Division engineers.....	...	1	1	...	...	...	1	...	1	4
Engineers in charge.....	...	1	1	...	...	...	...	...	2	4
Chief clerk.....	1	...	...	...	...	...	...	...	...	1
Clerks.....	38	12	6	2	1	1	2	1	33	96
Messenger.....	...	...	...	...	...	...	...	...	1	1
Assistant engineers (civil).....	1	12	19	...	...	...	9	...	4	45
Draughtsmen.....	...	2	13	...	...	...	5	...	2	22
Instrumentmen.....	...	7	24	...	...	...	5	...	6	42
Rodmen.....	...	8	12	...	...	...	3	...	1	24
Inspectors.....	...	40	41	43	39	...	3	1	38	205
Foremen.....	...	11	4	9	10	...	...	...	13	47
Subforemen.....	...	28	3	...	...	...	3	...	1	35
Investigator.....	...	...	1	...	...	...	...	...	...	1
Addressograph printers.....	...	...	...	...	...	...	...	...	2	2
Blacksmiths and assistants.....	...	7	1	16	...	...	...	...	3	27
Blueprinters.....	3	...	...	...	...	...	...	...	...	3
Boys.....	2	1	...	...	...	...	...	...	...	3
Chauffeurs.....	1	4	6	3	5	...	5	...	11	35
Carpenters and assistants.....	...	21	3	3	...	3	14	...	5	49
Chief inspectors.....	...	1	...	...	1	...	...	...	1	3
Claim agent.....	1	...	...	...	...	...	...	...	...	1
Cement testers and assistants.....	3	...	...	...	...	...	...	...	...	3
Chemist and assistant.....	...	2	...	...	...	...	...	...	...	2
Coal passers.....	...	...	8	...	...	...	...	...	...	8
Cashiers.....	...	1	...	...	...	1	...	...	...	2
Constable and inspector.....	...	1	...	1	...	...	...	...	...	2
Drawtenders and assistants.....	...	...	...	...	...	...	133	...	...	133
Deckhands.....	...	...	...	...	...	26	...	...	...	26
Engineer (gasolene).....	...	1	...	...	...	...	...	...	...	1
<i>Carried forward.....</i>	51	161	143	77	56	31	183	2	124	828

Grade and Number of Employees.— Continued.

TITLE.	SERVICES.									
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.	Total.
<i>Brought forward</i>	51	161	143	77	56	31	183	2	124	828
Engineers (steam).....		14	6			12			1	33
Electricians.....			1			1	1			3
Firemen.....		9	13			34			1	57
Gate-men.....			4			15				19
General foremen.....		1	1		1	1			2	6
Harnessmakers and assistants.....				8						8
Horseshoers.....				7						7
Inspector, castings.....									1	1
Janitors (scrub).....						1	1		2	4
Janitresses.....						7				7
Joiners.....						4				4
Laborers and helpers.....		322	73		165	12	2		171	745
Lamplighter.....						1				1
Machinist and assistants.....			4			2	1		22	29
Meter testers.....									8	8
Meter readers.....									25	25
Masons (stone and brick).....			12						1	13
Medical inspectors.....		1		1	1					3
Oilers.....			18			10				28
Pipe fitter.....						1				1
Pavers and assistants.....		84	1						2	87
Plumbers and assistants.....				1					25	26
Painters.....		2	1	10		3	3			19
Captains.....						12				12
Quartermasters.....						12				12
Repairers.....									49	49
Roofer.....						1				1
Rammers.....		16								16
Rigger.....						1				1
Sealers.....									2	2
Sewer flushers.....			13							13
<i>Carried forward</i>	51	610	290	104	223	161	191	2	436	2,068

Grade and Number of Employees.—Concluded.

TITLE.	SERVICES.									
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Lighting.	Water.	Total.
<i>Brought forward</i>	51	610	290	104	223	161	191	2	436	2,068
Supervisors.....		1		1			2		1	5
Stenographers.....	1	2	1					1		5
Stonecutters.....		16	2							18
Superintendents.....			1						2	3
Stockkeepers.....				1		1			2	4*
Stablemen.....		22	4	31	32		1		5	95
Tankman.....						1				1
Teamsters.....		60	8	453	209		1		18	749
Telephone operator.....									1	1
Tollmen.....						12				12
Toolman.....		1								1
Veterinarian.....				1						1
Chief veterinarian.....		1								1
Watchmen.....		11	18	11	3		5		12	60
Weighers.....		1		2						3
Wharfingers.....		1		4						5
Wharfmen.....				3						3
Wheelwrights and assistants.....				6						6
Yardmen.....		7	4	7	4				4	26
Totals.....	52	733	328	624	471	175	200	3	481	3,067

Comparative Table Showing the Number of Employees Actually Employed February 1, 1921, and February 1, 1922.

	Central Office.	Bridge.	Ferry.	Lighting.	Paving.	Sanitary.	Sewer.	Street Cleaning and Watering.	Water.	Total.
February 1, 1921.....	43	196	179	3	707	597	330	460	478	2,993
February 1, 1922.....	44	200	174	3	718	602	324	463	483	3,011

Total Eligible Force.

February 1, 1921.....	54	199	174	3	730	627	345	472	491	3,095
February 1, 1922.....	52	200	175	3	733	624	328	471	481	3,067

Table of Employees Showing Appointments, Transfers, Resignations, Retirements, Deaths, Etc., During the Year.

Died.	Retired Laborers.	Retired Veterans.	Transferred to Other Departments.	Transferred to Other Services.	Resigned.	Discharged.	February 1, 1921.	SERVICES, 1921-22.	January 31, 1922.	Transferred from Other Services.	Transferred from Other Departments.	Reinstated.	Appointed.
1	.....	.....	.....	1	.....	.....	54	Central Office.....	* 52	.....	.....	.....	.....
5	.....	1	.....	1	.....	2	199	Bridge.....	200	3	3	.....	4
3	.....	1	.....	4	3	.....	174	Ferry.....	175	5	2	.....	5
.....	.....	.....	.....	.....	.....	.....	3	Lighting.....	3	.....	.....	.....	.....
14	8	2	.....	7	12	.....	730	Paving.....	733	10	.....	2	34
11	3	1	8	14	9	.....	627	Sanitary.....	624	9	3	1	30
3	2	.....	3	15	9	.....	472	Street Cleaning.....	471	13	1	1	16
7	.....	1	2	7	8	.....	345	Sewer.....	328	6	1	.....	1
9	2	2	5	2	10	.....	491	Water.....	481	5	1	.....	14
53	15	8	18	51	51	2	3,095	Totals.....	3,067	51	11	4	104

* Includes eight Central Office employees who are paid on Water Service pay roll.

PART II.

APPENDICES.

APPENDIX A.

CENTRAL OFFICE.

Appropriation	\$88,634 20
Expenditures from February 1, 1921, to January 31, 1922	88,308 02
Unexpended balance transferred to city treasury,	<u>\$326 18</u>

Expenditures.

Salary, commissioner	\$9,000 00
Salaries of clerks, stenographers, etc.	73,204 62
Automobile expenses:	
Wages of chauffeur	\$1,404 00
Battery	25 19
Shock absorbers and installing	125 00
Gasolene	407 75
Storage	144 00
Repairs	210 70
Tires and tubes, new and repairs,	260 63
Supplies	350 70
Oil, grease, etc.	7 35
Registration	10 00
	<hr/>
	2,945 32
Printing	2,117 23
Stationery	271 62
Postage	148 02
Telephone tolls	8 90
Travel expenses, car fares, etc.	120 05
Dalton adding machine, repairs	29 15
Atlases	75 00
Inspection and repairs to typewriters	85 50
Books, papers, office supplies, etc.	208 95
Premium on surety bonds	6 00
Stenographer's service	87 66
	<hr/>
	<u>\$88,308 02</u>

APPENDIX B.

REPORT OF THE DIVISION ENGINEER OF THE
BRIDGE AND FERRY DIVISION.

BOSTON, February 1, 1922.

MR. THOMAS F. SULLIVAN,
Commissioner of Public Works:

DEAR SIR —I respectfully submit the following report of the income, expenditures and operation of the Bridge and Ferry Division for the year ending January 31, 1922. The expenditures of the division in the regular maintenance appropriations of the department were \$917,425.17. Under a number of special appropriations \$970,631.48 was expended, making the total expenditure for the year \$1,888,056.65.

BRIDGE SERVICE.

Apportionment of Cost of Bridges between Boston and Chelsea.—The City of Chelsea has as yet paid nothing toward the maintenance cost of Chelsea Bridge and Meridian Street Bridge.

Cambridge Street Bridge — Allston Bridge (over the Boston and Albany Railroad).—This bridge should be rebuilt.

Beacon Street Bridge (over the Boston and Albany Railroad).—This bridge should be rebuilt.

Chelsea Bridge (over the South Channel of the Mystic river).—Work on the rebuilding of this bridge should be begun this year.

Congress Street Bridge.—This bridge is antiquated, in bad condition, and should be replaced with a new structure within the next two or three years.

Dartmouth Street Bridge (over the Boston & Albany Railroad).—This bridge should have extensive repairs made to make it safe.

Arlington Street Bridge.

The easterly sidewalk of the Arlington Street Bridge over the Boston & Albany Railroad at Arlington square

was rebuilt in March and April of this year. Some of the brackets were replaced by new ones and considerable patching and strengthening was done, new stringers and floor were laid. The steel work was done by the Transit Department force, woodwork and painting by the Bridge Service force.

Ashland Street Bridge.

The contract which was awarded to the Boston Bridge Works and approved by the Mayor, July 6, 1920, for the reconstruction of the superstructure of this bridge was completed July 7, 1921, at a cost of \$54,000.

By the completion of this work a modern steel and concrete bridge, paved with granite blocks and grout jointed, took the place of the old wood and iron bridge.

The new structure is 50 feet wide, with a clear span of 73 feet. Two sidewalks, 6 feet wide, are provided. The new steel deck girders are encased in concrete with a concrete floor slab resting on them. The duct lines for the Boston Elevated Railway and the Edison Electric Illuminating Company are carried underneath the southerly sidewalk encased in concrete. The westerly approach was regraded and paved with granite block, grout jointed down to Hyde Park avenue,

Bennington Street Bridge.

The floor of the northerly section of the Bennington Street Bridge was rebuilt and the steel work supporting the floor strengthened and painted. A contract was made with John B. Dolan for the rebuilding of the floor. This consisted in removing all wooden stringers on the bridge, planking with 3-inch tongued and grooved planking, water-proofing and paving with wood blocks, with asphalt joints. This work cost \$3,047.20. The steel floor beams were strengthened by stiffeners under the stringer bearings and the steel work was cleaned and painted. The steel work and painting was done by day labor forces.

Charlestown and Warren Bridges.

December 6, 1921, W. S. Rendle & Co. was awarded a contract for repairing the fender piers of the Charlestown and Warren Bridges. The face of the draw pier of Charlestown Bridge was repaired by removing vertical planking and placing new wales on the existing piles.

The face of the draw pier of Warren Bridge was repaired with 6-inch vertical plank.

Capsills, stringers, riders', caps, etc., of the piers were renewed where necessary and some piles refitted and refastened.

The entire pier was replanked and fences erected to restrict the areas to be used in the future to smaller dimensions.

The drawtender's house at Warren Bridge was underpinned and the platform which surrounds it rebuilt.

This work cost \$19,311.67.

Chelsea Bridge North.

The southerly approach to the draw span of the Chelsea Bridge North had settled so low near the draw crack that it was necessary to raise the grade of the street surface to avoid accidents to street railway and vehicular travel. This was done by taking up the granite block paving, raising the curbs with new timber, repairing the under planking and sidewalk planking where necessary and relaying the paving and street railway tracks at the new grades on a deeper sand cushion. The cost of this work was \$3,949.95.

Clarendon Street Bridge.

The construction of the new Clarendon Street Bridge over the tracks of the New York, New Haven & Hartford Railroad and the Boston & Albany Railroad was completed May 7, 1921.

A contract was made with Coleman Brothers, approved on February 9, 1920, for the removal of the old structure over the New York, New Haven & Hartford Railroad, consisting of brick arches and concrete slabs resting on steel I-beams and girders which formed the original foundation for the Back Bay Hotel, the hotel itself being removed by the railroad company prior to the contract. This work was completed May 4, 1920.

A new reinforced concrete abutment was built at the northerly end of the bridge.

The bridge, 60 feet wide and 131 feet long, was then built utilizing the old piers and abutments which formed the foundation of the Back Bay Hotel for other supports. It consists of three spans. The two easterly spans over the New York, New Haven & Hartford Railroad are of steel beams encased in concrete; the westerly span over

the Boston & Albany Railroad has two through plate girders with a floor of steel beams encased in concrete. The pavement is granite block with grouted joints; considerable work was required on the southerly approach, consisting of grading and filling. The roadway of the approach was surfaced with asphalt on a concrete base.

The job was done by the John McCourt Company under contract approved May 24, 1920, and was completed May 7, 1921, at a cost of \$115,220.

Columbus Avenue Bridge.

Columbus Avenue Bridge over the Boston & Albany Railroad, a pony truss bridge carrying two roadways, built in 1877 and rebuilt in 1899, has been extensively repaired during the year. The bottom chords of the trusses, the floor beams and sidewalk brackets were patched and strengthened. New stringers and floor plank were laid and some cleaning and painting done. The steel work was done by the Transit Department force, woodwork and painting by the Bridge Service.

Dorchester Avenue Bridge.

On account of decay the westerly sidewalk on the north approach to the draw span collapsed and fell into the channel. This was rebuilt under contract by John P. Cavanagh, with yellow pine underplank and new asphalt surface at an expense to the City of Boston of \$3 924.26.

Dover Street Bridge (over Fort Point Channel).

On June 1, 1921, a bad fire destroyed the two middle girders and several floor beams and stringers of the middle span of the Boston approach to the draw span. In the rebuilding the design was changed to allow for a concrete floor slab instead of the original 6-inch yellow pine plank, on which would be placed the granite block pavement. Two new steel center girders were built and new steel floor beams and steel stringers provided in place of those destroyed. A concrete floor slab is to be laid on the steel stringers; the granite paving block to be recut and laid with an asphalt mastic joint. The wooden platform supporting the water pipes under the bridge is to be removed, and a reenforced concrete slab walk substituted. The wooden formwork around the

Edison conduit is also to be removed. Repairs will also be required to shelf angles and floor beams of the other spans. The work of reconstruction will be completed early in the coming year. The work is being done chiefly by day labor forces of the Transit Department.

A damaged section of the upstream draw pier of this bridge was repaired by driving new piles bringing the face of the pier out 15 inches to a straight line. Both faces of the waterway were repaired, as well as part of the surface.

W. H. Ellis & Son Company was the contractor. Work was completed December 12, 1921, at a cost of \$2,850.32.

It was found that salt water action on concrete had badly damaged the center draw pier of the bridge. This was repaired by the application of gunite to the eroded portions with a cement gun. Steel reinforcement was placed before the gunite was applied.

The work was done by Maurice M. Devine and completed November 19, 1921, at a cost of \$2,078.

Navigation lights have been installed on the Dover street draw which is a swinging span. There are four draw lanterns and five pier lanterns fitted with electric lamps wired with double conductor armored cable. The switches are hand operated and located in the operating cabinet. This work was done under contract by Sterns, Perry & Smith for the sum of \$791 and completed December 12.

Hyde Park Avenue Bridge (over Mother Brook).

On September 20, 1921, a contract was approved with the General Construction Company, Inc., for the rebuilding of this bridge. The old steel and wooden bridge is to be replaced by a modern concrete bridge paved with granite blocks. About one half of this work is completed. The estimated cost of doing this work according to the bid is \$11,250.

Massachusetts Avenue Bridge.

Massachusetts Avenue bridge over the Boston & Albany Railroad has been stripped and repaired this year. Bottom chords of the trusses, floor beams, sidewalk brackets and bracing were patched and strengthened where badly deteriorated; the lower part of the

bridge was cleaned and painted and a new wooden floor and sidewalk was laid. The steel work was done by the Transit Department force, woodwork and painting by the Bridge Service, all day labor.

Meridian Street Bridge Draw Span.

On August 2, 1921, a contract with W. H. Ellis & Son Company was approved for cleaning by sand blast and painting the steel work of the draw span of the Meridian Street Bridge. This work was completed September 30, 1921, at a cost of \$2,450.

New Allen Street Bridge, Hyde Park.

The floor of New Allen Street Bridge over the New York, New Haven & Hartford Railroad, Hyde Park was rebuilt by V. Grande, contract approved June 13, 1921.

The new floor was constructed with new yellow pine stringers laid by the New York, New Haven & Hartford Railroad and 3-inch tongued and grooved yellow pine plank with waterproofing and wood block paving with asphalt filler. The cost of the work to the city was \$4,900. Sometime after completion of the contract one of the spans of this bridge was destroyed by fire. It is now closed to traffic pending the rebuilding of the destroyed span by the railroad.

Public Garden Bridge.

The wooden floor of the Public Garden Bridge was removed and a steel and concrete floor was built in its place. The suspension rods which supported the wooden floor were shortened and imbedded in the new concrete floor slab, the effect of this being that while the bridge floor is now a separate unit independent of the old suspension chains, the appearance of the bridge remains practically unchanged.

The work was completed May 2, 1922, by A. Grande, at a cost to the city of \$4,740, the cost being borne by the Park Department.

Sprague Street Bridge, Hyde Park.

The roadway of this bridge was sheathed with new 2-inch spruce sheathing and the under plank and side-

walks repaired where needed under contract with John P. Cavanagh, approved June 13, 1921. The cost of this work was \$2,422.50.

Warren Bridge.

Bids were received for repairs to the piers and fender guards for water pipes at Warren Bridge (over the Charles river), January 4, 1921. The W. S. Rendle Company was awarded a contract for doing the work at an estimated cost of \$5,762.

Piling was removed, spurshores refitted and new timber placed where necessary.

The work was completed March 7, 1921, at a cost to the Water Service of \$7,108.03.

West Glenwood Avenue Bridge (over Mother Brook, Hyde Park).

The old wooden floor was removed from this bridge. New stringers were placed, new tongued and grooved yellow pine plank put on them, a layer of waterproofing felt put on this plank and the wearing surface of wood block paving with mastic joints laid on the felt.

This work was done under contract with the John M. McCourt Company, at a cost of \$3,037, and was completed August 20, 1921.

The steel work of this bridge was cleaned and painted by division forces at the same time.

West Newton Street Bridge (over The New York, New Haven & Hartford Railroad).

West Newton Street Bridge, over the New York, New Haven & Hartford Railroad, is a deck girder bridge consisting of a number of shallow plate girders spaced about 5 feet apart on which a wooden deck is supported. During the year the Edison Illuminating Company which has conduits across the bridge took up a part of the roadway to repair their conduits and it was thought advisable while this was being done to make needed repairs on the girders and stringer seats. Some cleaning and painting was done and a new wooden floor laid. The steel work was done by the Transit Department force, and the woodwork and painting by the Bridge Service.

Drawtenders' Houses.

November 21, 1921. A contract was approved with Joseph E. Somerset for repairing the roofing on the drawtenders' houses at the bridges at Summer street, over Fort Point channel, Dover street, Charlestown, and Summer street over the Reserved channel.

Slate roofs were placed on the houses at Dover street and Summer street, over Fort Point channel; asphalt shingles on Charlestown and on Summer street over Reserved channel.

The work was completed January 9, 1922, at a cost of \$1,789.

Public Landings.

A contract was awarded to George T. Rendle, April 13, 1921, for repairing the decking, planking, mooring gear, knees and hatches and for the entire calking and pitching of the underwater bodies of the pontoons of the public landings located at Summer Street Bridge and Northern Avenue Bridge. The cost of the work was \$1,983.95.

Roxbury Canal.

At the Roxbury Canal the bulkhead in the sanitary yard failed and the walls in the paving yard, sewer yard and City Hospital property were either bulging or had fallen into the canal.

In reconstruction a platform on piles was built, the top of which is at elevation 7.50. At the face of this platform was constructed a masonry wall backed with concrete, the masonry being obtained from the old walls. The coping of the wall in the sanitary yard is of concrete, but elsewhere it is of granite.

In the water yard the existing granite wall was in good condition and a relieving platform on piles was built behind it and the wall anchored to the platform. The cap on this wall was relaid. Fender piles were placed along the entire length of the canal.

The canal was dredged to a depth of from 8 feet to 13 feet at low water. The total length of wall built was about 1,350 feet, and the work was done under contract by the W. S. Rendle Company; completed July 28, 1921, at a cost of \$220,435.41.

A contract was let June 22, 1921, to W. S. Rendle for planking in the sides and ends of the dumping plat-

form of the Sanitary Service at the Roxbury Canal for the sum of \$1,849. There was included in this contract the construction of a galvanized-iron shelter over the hole through which the refuse was dumped. This work was necessary to stop the odors rising from the scows and spreading through the neighborhood.

The Bridge Division has furnished and erected at the City Paving Yard, Roxbury Canal, a 5-ton stiff-leg derrick to replace the old wooden one which had to be removed when the sea wall of the canal was rebuilt.

This derrick is an "Insley" all steel derrick with a boom 70 feet long and swings about 260 degrees. It has a capacity of five tons at its lowest boom and is electrically operated. The hoisting engine is a "Mundy" type with two drums and winch heads and safety device for automatically holding the loads. It is driven by a 35 horse power General Electric motor. The swinging engine is of the same type with a single drum and operated by a 10 horse power motor. Drum controllers and resistance are mounted on the engine frames convenient for one man operating. The plant exclusive of the foundations was furnished and installed by the P. I. Perkins Company, for the sum of \$6,551.

Strandway Beach, Strandway, South Boston.

November 8, 1921, a contract was approved with the D. M. Biggs Company for surfacing the beach on the Strandway at the foot of M and N streets.

This contract also provided for building a concrete wall and steps at the top of the beach with granolithic walks and planting spaces.

The work is about one third completed.

Fireboat Wharf, Northern Avenue Bridge.

August 25, 1921, a contract was approved for the repairing of the fireboat wharf at the Northern Avenue Bridge.

The work was done under the supervision of the division for the Fire Department. New fender piles were driven; caps, stringers and planking were repaired where necessary.

The contractor on the work was W. H. Ellis & Son Company, who completed it September 6, at a cost of \$1,343.40.

Long Island Wharves.

W. S. Rendle was awarded a contract for repairing and strengthening the northwest wharf September 6, 1921.

The runway was entirely replaced. A pump well about 14 feet by 20 feet near the site of the abandoned drop was built and such piles, stringers, caps, chocks and fencing on the wharf as were decayed were replaced.

This work cost \$4,938.66 and was supervised by this division for the Institutions Department.

The east wharf at Long Island, with the coal pocket and drop, was repaired by contract with George T. Rendle. New piling, planking and stringers were placed on the wharf. The caps under the coal shed were strengthened and repaired, new planking timber and hinges put on the landing drop. The cost was \$16,270.17. The above work was done under the direction of this division for the Institutions Department.

Steamboat "Monitor."

At the request of the Commissioner of Institutions this department drew up specifications for and supervised the work on the steamboat "Monitor."

For a considerable period of time the air pump had not been overhauled, with the result that extensive renewals were required. Both paddle wheels were in such condition that much forging and electric welding was necessary to put the wheels in satisfactory repair. The sanitary pump had become so worn and corroded that a new pump was installed rather than attempting to repair the old one. A few minor incidental repairs were also accomplished.

A contract for the above work was signed on January 12, 1922, by the Richard T. Green Company of Chelsea; contract price, \$1,991.

FERRY SERVICE.

FERRYBOATS "LIEUTENANT FLAHERTY" AND
"RALPH J. PALUMBO."

In June there were launched two steel, four-driveway screw ferryboats for the service, the "Lieutenant Flaherty," built by the Groton Iron Works, Groton, Conn., contract price \$379,950, and the "Ralph J. Palumbo," built by the Winnisimmet Ship Yard, Inc., Chelsea, Mass., contract price \$335,000. Both boats are alike; the subcontractors for the main engines, boilers and auxiliaries furnished duplicate rigs for the two boats. So far as the lines and general contour of the boats is concerned, they were built from the same contract plans.

The principal dimensions of the boats are as follows:

Length over all	174 feet.
Length, outside to outside of propeller posts.	146 feet 6 inches.
Beam, extreme over guards	57 feet.
Beam, hull, molded	40 feet.
Depth, molded	15 feet 4 inches.
Draught with water and fuel	9 feet.

While the general appearance of the two boats is the same as the "John H. Sullivan," there are several essential differences. For vehicles each boat is provided with four driveways. To accommodate pedestrians, there is not only a narrow cabin on either side of the boat extending the entire length of the superstructure, but there is provision made by means of two flights of removable stairs in each cabin for the passengers to ascend to the upper deck; since the upper deck is not protected, only at such times as the weather and circumstances permit will passengers be allowed to ride there. Because of the ever increasing loads to be carried, the molded beam of the hull has been increased by 18 inches over the "John H. Sullivan" and the upper body of the hull has been carried out full at the ends in order to reduce to a minimum the depressing of the end of the boat when a heavy load goes on or off the end. In anticipation of a coal shortage, there is installed on both

these boats an auxiliary fuel oil firing rig for the boilers. To supplement the service of the fire boats, there is connected up and ready for service, on both boats, a 1,500 gallon fire pump furnished with four turret nozzles located at the four corners of the upper deck. On the main engines there has been only one real radical change and that is the use of one common throttle valve instead of two independent valves as on the other screw boats in the service; this was accomplished by a rearrangement of the cylinders. It may be noted that service has fully justified all changes made from other boats running.

"NODDLE ISLAND."

On February 24 the rebuilt "Noddle Island" was launched at the yard of the Richard T. Green Company, Chelsea, Mass., contract price \$152,400. The general measurements of the hull are similar to those of the "Lieutenant Flaherty" and "Ralph J. Palumbo," but the boat is built of wood instead of steel. While the hull, superstructure and some auxiliaries are new, the boat cannot be considered a new one in the same sense as the two new steel boats, in that the main engines, boilers, much of the piping, many of the valves and some of the auxiliaries were in the original hull which was built in 1899 by the Lockwood Company.

The boat is provided with four driveways and four small cabins, one cabin at each end of the boat on each side.

The general arrangement of the main deck, cabins and superstructure are the same as the "General Sumner," the first boat to be changed from a two-driveway to a four-driveway boat.

The chief difference between the original and the rebuilt "Noddle Island" is the hull. In order to accommodate the heavier loading on the new boat, the molded beam of the hull was increased from about 37 feet to 40 feet and the ends, as on the steel boats, were built very full above the water line. To give further stiffness to the boat, the hull was carried out close to the ends of the main deck, thereby reducing the stresses thrown in the overhanging fantail while the boat is loading and unloading. To further offset the inherent weakness in the ends of the hull, there is fitted around each end a large knuckle beam which not only gives rigidity but distributes widely all stresses from moving loads on the

main deck near the ends. Another feature not common with the other boats is the elimination of the sponson braces under the guards. The value of this item is appreciated in excessively cold weather when large volumes of ice form on these braces and not only cause a greater displacement of the boat but interferes with maneuvering. Again, because the main engines, shaft and propeller are called on to propel a larger boat than they were designed for in the first instance, it was necessary to carefully consider the lines of the hull so that it would not only take care of all loadings but would still be readily maneuvered. For these reasons the lines of the "Noddle Island" are radically different from those of the steel boats; first, in that the "Noddle Island" has a 12-inch keel and, second, in that the midship section has a fairly sharp dead rise carried well out, while the new steel boats have no keel and the midship section is nearly round. To further help in handling the boat, the bottom is sheathed with 22-ounce yellow metal.

To date, in spite of the heavier duty on the prime movers, the boat is giving satisfactory service.

"D. D. KELLY" AND "GENERAL HANCOCK."

Shortly after the new boats went in commission the "D. D. Kelly," built in 1879, and the "General Hancock," built in 1887, both wooden side wheelers, were sold, the "D. D. Kelly" for \$1,000, the "General Hancock" for \$2,500.

"HUGH O'BRIEN."

In February there was a contract made with Bertelsen & Petersen Engineering Company to repair the main shaft of the "Hugh O'Brien" which broke without warning about the middle of January; the rough turned shaft was furnished to the contractor by the city. At the same time there were miscellaneous repairs made to the main engine. Contract price for this work \$2,400.

In June a contract was made with the R. Minton Company to install a new type of roadway barrier at either end of the boat. These barriers are essentially chains with springs, suitably housed in the supporting columns located on either side of the roadway, on the ends. These barriers have proved satisfactory. Contract price \$2,000.

In November a contract was made with the Richard

T. Green Company to repair the guards and make some minor repairs to the hull. This work was necessary on account of the sagging of the upstream guard. As the work progressed the local inspectors required further minor repairs. Contract price, \$1,489.

“JOHN H. SULLIVAN.”

In May there was a contract made with the Atlantic Works to repair one crank shaft which had been bent, line up the engine and shaft, readjust and repair the thrust bearings, install a new water service pump and make miscellaneous repairs to piping and valves. Contract price, \$3,974.

While the above repairs were being made, the local inspectors required further repairs made on the hull of the boat. The work consisted of furnishing in place one new rudder pintle bushing repairing one rudder bushing, installing two new sea valve nozzles, furnishing in place twelve new zincs, the driving of about 4,000 rivets and painting the hull. A contract was made with the Atlantic Works to make these repairs for \$3,179.

In July a contract was made with the Atlantic Works to furnish complete two spare propellers, steel castings, for the boat. Contract price, \$815.

“GENERAL SUMNER.”

In January to meet the requirements of the local inspectors a contract was made with the Atlantic Works to make some major repairs to the hull; at the same time there were some minor machine repairs made. The chief items under this contract are the installing of nine new frames under the boilers, the repairing of both bilge and boiler keelsons and the repairing of the main decks at both ends. The contract to make these repairs was taken by the Atlantic Works at \$6,737.

“GOVERNOR RUSSELL.”

Aside from small minor repairs, which were made by the department force, this boat has required no considerable expenditure to keep it in service. However, owing to the almost continuous running of the boat with the resulting wear and racking, there will probably be some extensive repairs required in the near future.

“ MISCELLANEOUS.”

In April a contract was made with the Atlantic Works to repair eight bronze propeller blades for \$1,014.

Again in January another contract was made with the same company to repair seven blades for \$637.

The piers of the North Ferry on the Boston and East Boston sides were repaired this year under a contract awarded to the W. H. Ellis and Son Co., May 31, 1921. The work done under this contract consisted on the East Boston side, in rebuilding of the north pier of the North Ferry, the repairing of the Coal Shed Wharf, the repairing of the middle pier of the North Ferry, including the rebuilding of the middle pier head which had been broken off during the repairs to the North Slip. On the Boston side the north pier was rebuilt and the middle pier patched. The cost of this work was \$15,809.90.

Lawler Brothers, contractors, were awarded a contract December 5, 1921, for repairing the piers at the Boston landing of the North Ferry.

A new head was built at the south pier and the piling, girders and planking repaired at a cost of \$3,094.29. The work was completed February 1, 1922.

Respectfully submitted,

JOHN E. CARTY,
Division Engineer.

BRIDGE SERVICE.

FINANCIAL STATEMENT, 1921-22.

Expenditures from Maintenance Appropriation.

Boston bridges	\$392,589 05	
Boston and Cambridge bridges	27,999 77	
		<u>\$420,588 82</u>

Total Expenditures.

From maintenance appropriation .	\$420,588 82	
From special appropriations . . .	298,038 60	
		<u><u>\$718,627 42</u></u>

EXPENDITURES ON BOSTON BRIDGES.

(1.) Administration:

Salaries:		
Division engineer	\$3,750 00	
Supervisors	4,996 22	
Engineers and draughtsmen . . .	28,446 22	
Clerk	1,877 19	
Inspectors	3,124 18	
Medical inspector	166 69	
Pensions:		
Veterans	\$3,755 58	
Laborers	360 00	
		<u>4,115 58</u>
Holiday time	1,450 75	
Vacations	2,373 01	
Pay to injured employees	728 00	
Printing postage stationery . . .	1,589 03	
Travel	219 19	
Telephones	8 21	
Engineers supplies and instruments	120 83	
Typewriter inspection	39 50	
Office supplies	46 25	
New blueprinting machine	250 00	
		<u>\$53,300 85</u>

(2.) Yard and Stockroom:

Yard:		
Clerk, janitor, watchmen	\$3,822 92	
Travel	239 65	
Tools	540 50	
Tool repairs	409 82	
Telephone	138 27	
Medical service	38 50	
Furnishings	13 80	
Repairing buildings	3 20	
Lumber	24 56	
Supplies	111 60	
		<u>\$5,342 82</u>
Carried forward		<u>\$5,342 82</u>

<i>Brought forward</i>		\$5,342 82
Stockroom:		
Stock (lumber, nails and supplies for bridges)	\$5,044 64	
Plus increase in stock	<u>1,117 86</u>	
		6,162 50
		<u>\$11,505 32</u>

(3.) Automobiles:

Division engineer:		
Wages of chauffeur	\$1,080 00	
Storage	180 00	
Repairs	524 18	
Supplies	31 47	
Oil and gasoline	348 82	
New tires and tubes	195 24	
Repairs to tires and tubes	5 75	
New touring car	<u>1,365 00</u>	
		\$3,730 46
Supervisor of Bridges:		
Wages of chauffeur	\$1,350 00	
Storage	181 00	
Repairs	263 46	
Supplies	70 39	
Oil and gasoline	260 16	
New tires and tubes	127 88	
Repairing tubes	21 25	
Registration	<u>12 00</u>	
		2,286 14
Auto Truck No. 1:		
New tires and tubes	\$244 68	
Storage	76 39	
Repairs	210 28	
Supplies	8 00	
Oil and gasoline	393 81	
Repairing tires and tubes	10 25	
Registration	<u>2 00</u>	
		945 41
Auto Truck No. 2:		
Wages of chauffeur	\$1,350 00	
New tires and tubes	254 91	
Repairs to tires and tubes	26 00	
Repairs	504 93	
Oil and gasoline	266 57	
Supplies	14 30	
Hire of automobile	55 00	
New Ford truck	402 50	
Registration	<u>4 00</u>	
		2,878 21
Auto Truck No. 3:		
New tires and tubes	\$91 44	
Repairs	273 13	
Oil and gasoline	260 76	
Supplies	15 25	
Storage	40 00	
New Ford truck	<u>623 69</u>	
		1,304 27
		<u>\$11,144 49</u>

Repairs on Inland Bridges.

BRIDGE.	Labor and Materials.
Albany street (over Boston & Albany Railroad).....	\$2,074 33
Allston street.....	3,001 59
Ashmont street.....	178 39
Arlington street.....	1,086 08
Austin street.....	338 72
Batson street.....	21 50
Beacon street (over Boston & Albany Railroad).....	193 42
Braddock Park.....	65 75
Berkeley street.....	1,699 37
Blue Hill avenue.....	672 11
Boston street.....	487 54
Bennington street.....	335 58
Boylston street.....	421 32
Blakemore street.....	259 30
Beacon street (over outlet).....	5 00
Columbus avenue.....	8,379 90
Cambridge street (over Boston & Maine Railroad).....	53 75
Commercial point.....	536 30
Chelsea street (over Boston & Maine Railroad).....	12 50
C Street stairway.....	1,005 73
Central avenue.....	790 65
Dartmouth street.....	634 50
Dorchester avenue (over Old Colony Railroad).....	2,219 59
Dana avenue.....	356 55
Everett street.....	766 51
East River street.....	95
Florence street.....	193 06
Glenwood Avenue West.....	281 30
Hyde Park avenue (over Mother brook).....	197 00
Hyde Park avenue (over Stony brook).....	142 98
Harvard street.....	24 50
Hyde Park avenue, near Readville station.....	9 50
Irvington street.....	282 80
Jones avenue.....	7 50
Maverick street.....	120 29
<i>Carried forward.....</i>	\$22,914 33

Repairs on Inland Bridges.—Concluded.

BRIDGE.	Labor and Material.
<i>Brought forward</i>	\$22,914 33
Mystic street.....	24 00
Milton.....	2,905 17
Massachusetts avenue (over Providence Division).....	5,843 61
Gainsborough street.....	158 88
Milton street, Hyde Park.....	1,252 31
New Allen street.....	23 50
Oakland street.....	3,384 49
Perkins street.....	49 37
Public landing, Northern avenue.....	2,025 47
Reservoir road.....	74 73
Sprague street.....	9 88
Summer street (over A street).....	13 12
Summer street (over B street).....	40 67
Shawmut avenue.....	15 50
Southampton street.....	72 06
Saratoga street.....	129 45
Sumner street.....	48 17
Tollgate way.....	184 19
West River street.....	67 70
Wordsworth street.....	146 50
Winthrop.....	48 00
West Rutland street.....	160 81
West Fourth street.....	696 01
Webster street.....	165 03
West Newton street.....	2,651 26
Cleaning bridges.....	2,733 42
	<u>\$49,779 16</u>

BRIDGES.

Expenditures on Tide Water Bridges

BRIDGES.	Draw- tenders' Salaries.	Mechanics' Wages.	Material.	Repair Bills.	Supplies.	Total.
Broadway.....	\$14,299 62	\$174 20	.....	\$273 23	\$423 07	\$15,170 12
Charlestown.....	19,523 59	1,766 28	\$1,616 02	1,094 61	999 73	25,000 23
Chelsea North.....	16,350 54	1,516 22	24 64	521 63	728 75	19,141 78
Chelsea South.....	14,390 29	1,715 45	542 01	183 93	342 73	17,174 41
Chelsea Street.....	14,404 30	819 53	.....	88 99	360 64	15,673 46
Congress Street.....	14,864 15	1,557 95	767 08	1,021 48	998 06	19,208 72
Dorchester Avenue.....	14,301 00	855 35	643 25	698 63	350 26	16,848 49
Dover Street.....	14,320 46	1,388 40	639 45	3,438 89	330 07	20,117 27
L Street.....	14,304 02	378 45	240 78	435 55	219 45	15,578 25
Malden.....	14,765 87	350 92	.....	457 94	580 55	16,155 28
Meridian.....	14,867 62	1,304 23	489 88	2,881 23	343 37	19,886 33
Northern Avenue.....	16,262 67	2,466 10	1,980 78	2,226 04	5,402 95	28,338 54
Summer Street.....	14,563 90	1,322 35	.....	585 67	1,883 33	18,355 25
Warren.....	14,674 38	2,287 24	468 27	647 23	1,964 75	20,041 87
Western Avenue.....	31 78	.....	43 45	94 00	.....	169 23
Totals.....	\$211,924 19	\$17,902 67	\$7,455 61	\$14,649 05	\$14,927 71	\$266,859 23

SUMMARY OF EXPENDITURES.

Administration	\$53,300 85
Yard and stockroom	11,505 32
Automobiles and trucks	11,144 49
Inland bridges	49,779 16
Tide water bridges	266,859 23
Total	<u>\$392,589 05</u>

BRIDGES, REPAIRS, ETC.

WARREN BRIDGE.

Salaries of engineers	\$718 32
Inspection	345 20
Travel	47 40
Supplies	19 80
Vincenzo Grande	54,756 80
Transit Commission	43 72
W. S. Rendle Company	50 58
Advertising	7 50
	<u>\$55,989 32</u>
Allston Street	\$1,082 54
Arlington Street	411 91
A Street Stairway	166 51
B Street Stairway	524 37
Brookline Street	521 56
Carried forward	<u>\$2,706 89</u> <u>\$55,989 32</u>

<i>Brought forward</i>	\$2,706 89	\$55,989 32
Berkeley Street	1,756 63	
Bennington Street	3,187 63	
Chelsea North	4,344 81	
Chelsea South	379 98	
Chelsea Street	633 06	
Charlestown	2,227 62	
Columbus Avenue	3,957 37	
Dover Street	4,367 80	
Dorchester Avenue	4,137 70	
Malden	154 19	
Meridian	51 73	
Massachusetts Avenue	4,523 11	
New Allen	5,531 49	
Northern Avenue	991 57	
Sprague Street	2,456 76	
Summer Street	31 68	
West Glenwood Street	3,215 60	
West Newton Street	1,289 94	
		45,945 56
		<u>\$101,934 88</u>

HYDE PARK AVENUE BRIDGE.

Salaries of engineers	\$1,158 29
Advertising and printing	68 30
Photographs	20 00
Engineers' supplies	40 20
General Construction Company	4,611 25
Travel expense, car fares	4 00
	<u>\$5,902 04</u>

BROOKLINE AVENUE BRIDGE.

Execution of court	\$4,000 00
Rebuilding bridge	660 00
	<u>\$4,660 00</u>

ASHLAND STREET BRIDGE.

Salaries of engineers	\$419 95
Inspection	300 00
Travel expense	25 85
Stationery	4 95
Repairs	503 70
Boston Bridge Works	54,000 00
Paving Service	1,019 70
	<u>\$56,274 15</u>

DOVER STREET BRIDGE.

Salaries of engineers	\$743 61
Inspection	69 04
Supplies	507 35
A. C. Harvey	4,807 45
W. H. Ellis & Sons Company	703 41
Travel expense	5 80
Transit Commission	10,274 94
Paving Service	20 00
Repairs	185 94
	<u>\$17,317 54</u>

SEA WALL, ETC., ROXBURY CANAL.

Salaries of engineers	\$2,037 71
Inspection	759 44
Travel expense	76 70
W. S. Rendle Company	82,739 29
Advertising and postage	23 86
Printing and stationery	12 10
Paving Service	2,345 97
W. H. Ellis & Son Co.	723 88
Engineers supplies	21 29
Material	682 55
Sewer Service	18 63
P. L. Perkins	5,289 93
Transit Department	309 18
	<hr/>
	\$95,040 53

CHELSEA BRIDGE SOUTH.

Salaries of engineers	\$2,936 11
Advertising	13 20
Engineers supplies	9 48
Postage	11 16
Printing and stationery	30 86
Commonwealth of Massachusetts Division of Waterways and Public Lands	2 00
Travel expense	139 31
	<hr/>
	\$3,142 12

STRANDWAY AND OLD HARBOR IMPROVEMENT.*

Salaries of engineers	\$226 29
Advertising	11 50
Engineers supplies	35 80
D. M. Biggs & Co.	13,493 75
	<hr/>
	\$13,767 34

Amount paid into the City Treasury during 1921-22:

Labor and material furnished	\$216 20
Rents, Charlestown Bridge	2,921 75
Warren Bridge repairs	12,548 70
	<hr/>
	\$15,686 65

* \$45,035.59 expended by Sewer Service.

SUMMARY.

Expended from Special Appropriations in Charge of Bridge Service.

	Balances from 1920.	Total Credits Including Balance Carried Over.	Expended During Year 1921.	Balance Unexpended January 31, 1922.
Bridges, repairs, twenty-four bridges.....	\$28,753 79	\$131,302 49	\$101,934 88	\$29,367 61
Hyde Park Avenue Bridge.....		20,000 00	5,902 04	14,097 96
Brookline Avenue Bridge.....	713 91	4,660 00	4,660 00	
Ashland Street Bridge.....	63,567 49	63,567 49	56,274 15	7,293 34
Dover Street Bridge.....		40,000 00	17,317 54	22,682 46
Sea wall, etc., Roxbury Canal.....	109,492 69	189,492 69	95,040 53	94,452 16
Chelsea Bridge South.....	14,867 54	14,867 54	3,142 12	11,725 42
Totals.....	\$217,395 42	\$463,890 21	\$284,271 26	\$179,618 95

LIST OF BOSTON BRIDGES.

I.—BRIDGES WHOLLY MAINTAINED BY BOSTON.

[In the list those marked with an asterisk (*) are over navigable waters, and are each provided with a draw.]

In Charge of Bridge and Ferry Division.

- Allston, over Boston & Albany Railroad at Cambridge street, Brighton.
- Arlington street, over Boston & Albany Railroad.
- Ashland street, over New York, New Haven & Hartford Railroad, Providence Division, West Roxbury.
- B street (footbridge), over Neponset river, Hyde Park.
- Baker street, at Brook Farm, West Roxbury.
- Beacon street, over outlet from Back Bay Fens.
- Beacon street, over Boston & Albany Railroad.
- Bennington street, over Boston, Revere Beach & Lynn Railroad.
- Berkeley street, over Boston & Albany Railroad.
- Blakemore street, over New York, New Haven & Hartford Railroad, Providence Division.
- Boylston street, over Boston & Albany Railroad.
- Braddock park, formerly Berwick park (footbridge), over New York, New Haven & Hartford Railroad (Providence Division).
- Broadway, over Boston & Albany Railroad.
- * Broadway, over Fort Point channel.
- Brookline avenue, over Boston & Albany Railroad.
- Brooks street, Brighton.
- Byron street, over Boston, Revere Beach & Lynn Railroad.
- Charlesgate, in Fens, over Ipswich street.
- * Charlestown, from Boston to Charlestown.
- * Chelsea South (temporary), over south channel, Mystic river.
- * Chelsea street, from East Boston to Chelsea.
- Columbus avenue, over Boston & Albany Railroad.
- Commercial Point, or Tenean, Dorchester.
- * Congress street, over Fort Point channel.
- Dana avenue, over Neponset river, Hyde Park.
- Dartmouth street, over Boston & Albany Railroad.
- * Dorchester avenue (formerly Federal street), over Fort Point channel.
- * Dover street, over Fort Point channel.
- Fairmount avenue, over Neponset river, Hyde Park.
- Florence street, over Stony brook, West Roxbury.
- Gainsborough street (footbridge), over New York, New Haven & Hartford Railroad, Providence Division.
- Glenwood Avenue East (footbridge), over Neponset river, Hyde Park.
- Glenwood Avenue West, over Mother brook, Hyde Park.

- Gove street (footbridge), over Boston & Albany Railroad, East Boston.
- Huntington avenue, over Boston & Albany Railroad.
- Huntington avenue, over Stony brook, Hyde Park.
- Hyde Park avenue, over Mother brook (at woolen mill), Hyde Park.
- Hyde Park avenue, over Stony brook, West Roxbury.
- Hyde Park avenue, over Stony brook (near Clarendon Hill Station), Hyde Park.
- Ipswich street, in Fens, over waterway.
- Irvington street (footbridge), over New York, New Haven & Hartford Railroad, Providence Division.
- Jones avenue (footbridge), over New York, New Haven & Hartford Railroad, Midland Division.
- * Malden, from Charlestown to Everett.
- Massachusetts avenue, over Boston & Albany Railroad.
- Massachusetts avenue, over New York, New Haven & Hartford Railroad, Providence Division.
- * Meridian street, from East Boston to Chelsea.
- Metropolitan avenue (near Clarendon Hills Station), Hyde Park.
- Neptune road, over Boston, Revere Beach & Lynn Railroad.
- Newburn street, over Stony brook, Hyde Park.
- * Northern avenue, over Fort Point channel.
- Shawmut avenue, over Boston & Albany Railroad and New York, New Haven & Hartford Railroad, Providence Division.
- Southampton street, over South Bay sluice.
- Summer street, over A street.
- Summer street, over B street.
- Summer street, over C street.
- * Summer street, over Fort Point channel.
- * Summer street, over Reserved channel, South Boston.
- Tollgate way (footbridge), over Providence Division, from Washington street to Hyde Park avenue, Forest Hills.
- Walworth street, over New York, New Haven & Hartford Railroad, Providence Division.
- * Warren, from Boston to Charlestown.
- West Newton street, over New York, New Haven & Hartford Railroad, Providence Division.
- West River street, over Mother brook, Hyde Park.
- West Rutland square (footbridge), over New York, New Haven & Hartford Railroad, Providence Division.
- Wordsworth street (footbridge), over Boston, Revere Beach & Lynn Railroad, East Boston.

In Charge of Bridge and Ferry Division and Park and Recreation Department.

- Columbia road, over New York, New Haven & Hartford Railroad, Old Colony Division.
- Columbia road, over Shoreham street.

In Charge of Park and Recreation Department.

Agassiz road, in Fens.

Audubon road, in Riverway, over Boston & Albany Railroad.

Berners street (footbridge), over Bridle path in Riverway.

Boylston street, in Fens, over waterway.

Bridle path, in Riverway, over Muddy river.

* Castle Island (footbridge), in Marine Park, South Boston, to Castle Island.

Charlesgate, in Fens, over Boston & Albany Railroad.

Circuit drive, over Scarboro pond, in Franklin Park.

Commonwealth avenue, in Fens, over waterway.

Cottage Farm, over Boston & Albany Railroad, at Commonwealth avenue.

Ellicott Arch, Franklin Park.

Fens, in Fens.

Forest Hills entrance, in Franklin Park.

Leverett pond (footbridge), in Olmstead Park.

Norfolk street Playground (footbridge), over Midland Division, New York, New Haven & Hartford Railroad.

Public Garden (footbridge).

Scarboro pond (footbridge), in Franklin Park.

Wood Island (footbridge), in Wood Island Park.

II.— BRIDGES OF WHICH BOSTON MAINTAINS THE PART WITHIN ITS LIMITS.

In Charge of Bridge and Ferry Division.

Central avenue, from Dorchester to Milton.

* Chelsea North, from Charlestown to Chelsea.

Milton, from Dorchester to Milton.

Paul's Bridge, over Neponset river, Hyde Park.

Spring street, from West Roxbury to Dedham.

* Western avenue, from Brighton to Watertown.

Winthrop, from Breed's Island to Winthrop.

In Charge of Park and Recreation Department.

Bellevue street, in the Riverway, over Muddy river.

Berners street (footbridge), over Muddy river.

Brookline avenue, in the Riverway, over Muddy river.

Hungtington avenue, in the Riverway, over Muddy river.

Longwood avenue, in the Riverway, over Muddy river.

III.— BRIDGES OF WHICH BOSTON PAYS A PART OF THE COST OF MAINTENANCE.

In Charge of Bridge and Ferry Division.

Albany street, over Boston & Albany Railroad (over freight tracks).

Ashmont street and Dorchester avenue, over New York, New Haven & Hartford Railroad, Old Colony Division.

Belgrade avenue, over New York, New Haven & Hartford Railroad, Providence Division.
 Harvard street, over New York, New Haven & Hartford Railroad, Midland Division.
 Morton street, over New York, New Haven & Hartford Railroad, Midland Division.
 Norfolk street, over New York, New Haven & Hartford Railroad, Midland Division, near Dorchester station.
 Pleasant street, over the subway.

In Charge of Commissioners for Boston and Cambridge Bridges.

Anderson Bridge, from Brighton to Cambridge.
 Brookline street, from Brighton to Cambridge.
 Cambridge, from Boston to Cambridge.
 * Cambridge street, from Brighton to Cambridge.
 * Harvard, from Boston to Cambridge.
 * Prison Point, from Charlestown to Cambridge.
 * Western avenue, from Brighton to Cambridge.

In Charge of Commissioners for Granite Avenue Bridge.

* Granite avenue, from Dorchester to Milton.

IV.—BRIDGES OF WHICH BOSTON MAINTAINS THE WHOLE OR A PART OF THE WEARING SURFACE.

In Charge of the Bridge and Ferry Division.

Austin street, over Boston & Maine Railroad, Charlestown.
 Babson street, over New York, New Haven & Hartford Railroad, Midland Division, near Blue Hill Avenue station.
 Bennington street, over Boston & Albany Railroad.
 Blue Hill avenue, over New York, New Haven & Hartford Railroad, Midland Division.
 Boston street, over New York, New Haven & Hartford Railroad, Old Colony Division.
 Brookline street, Brighton, to Cambridge, portion over Boston & Albany Railroad.
 Cambridge street, Charlestown, over Boston & Maine Railroad.
 Chelsea, over Boston & Maine Railroad.
 Curtis street, East Boston, over Boston & Albany Railroad.
 Dana avenue, over New York, New Haven & Hartford Railroad, Midland Division, Hyde Park.
 Dorchester avenue, over New York, New Haven & Hartford Railroad, Old Colony Division.
 Everett street, over Boston & Albany Railroad, Brighton.
 Fairmount avenue, over New York, New Haven & Hartford Railroad, Midland Division, and Station street, Hyde Park.
 Glenwood Avenue West, over passageway connecting land of the New York, New Haven & Hartford Railroad, Hyde Park.
 Harrison avenue, over Boston & Albany Railroad.

Hyde Park avenue, over proposed electric connection between Midland and Providence Division, New York, New Haven & Hartford Railroad, Hyde Park.

Maverick street, East Boston, over Boston & Albany Railroad.

Milton street, Hyde Park, over New York, New Haven & Hartford Railroad.

Mystic avenue, over Boston & Maine and Boston & Albany Railroads.

New Allen street, Hyde Park, over New York, New Haven & Hartford Railroad.

Oakland street, over New York, New Haven & Hartford Railroad, Midland Division, Mattapan.

Perkins street (footbridge), over Boston & Maine Railroad.

Porter street, over Boston & Albany Railroad.

Prescott street, over Boston & Albany Railroad.

Redfield street, at Neponset, over New York, New Haven & Hartford Railroad, Old Colony Division.

Reservoir road, Brighton, over Boston & Albany Railroad, Newton Branch.

Saratoga street, over Boston & Albany Railroad.

Saratoga street, over Boston, Revere Beach & Lynn Railroad, East Boston.

Southampton street, over New York, New Haven & Hartford Railroad, Old Colony Division.

Sprague street, over New York, New Haven & Hartford Railroad, Midland Division, and branch of Providence Division, Hyde Park.

Summer street, over New York, New Haven & Hartford Railroad, Midland Division.

Sumner street, East Boston, over Boston & Albany Railroad.

Webster street (footbridge), East Boston, over Boston & Albany Railroad.

West Fourth street, over New York, New Haven & Hartford Railroad, Old Colony Division.

V. — BRIDGES MAINTAINED BY METROPOLITAN DISTRICT COMMISSION, PARK DIVISION.

* Charles River Dam.

Mattapan, over Neponset river.

* Neponset, from Dorchester to Quincy.

North Beacon street, from Brighton to Watertown.

VI. — BRIDGES WHOLLY MAINTAINED BY RAILROAD CORPORATIONS.

1st.— Boston & Albany.

Albany street (over passenger tracks).

Market street, Brighton.

Tremont street.

Washington street.

2d.—*Boston & Maine and Boston & Albany Railroads.*
Main street.

3d.—*Boston & Maine Railroad, Eastern Division.*
Wauwatosa avenue, East Boston.

4th.—*Boston, Revere Beach & Lynn Railroad.*
Everett street.

5th.—*New York, New Haven & Hartford Railroad, Midland Division.*

Athens street.
Bolton street.
Dorchester avenue.
East River street, at River Street Station, Hyde Park.
Gold street.
Silver street.
Washington street, Dorchester.
West Broadway.
West Second street.
West Third street.
West Fourth street.
West Fifth street.
West Sixth street.

6th.—*New York, New Haven & Hartford Railroad, Old Colony Division.*

Adams street.
Cedar Grove Cemetery.
Medway street.
Savin Hill avenue.

7th.—*New York, New Haven & Hartford Railroad, Providence Division.*

Albany street.
Arlington square.
Baker street, West Roxbury.
Bellevue street, West Roxbury.
Berkeley street.
Broadway, South Boston.
Canterbury street, West Roxbury.
Centre and Mt. Vernon streets, West Roxbury.
Columbus avenue.
Dartmouth street.
Gardner street, West Roxbury.
Harrison avenue.
Park street, West Roxbury.

Washington street.

West street, Hyde Park.

West River street, Hyde Park.

VII.— BRIDGES MAINTAINED BY THE UNITED STATES GOVERNMENT.

* Victory Bridge (over Neponset river), from Dorchester to Quincy.

RECAPITULATION OF BRIDGES.

I. Number wholly maintained by Boston:	
In charge of Bridge and Ferry Division	64
In charge of Bridge and Ferry Division and Park and Recreation Department	2
In charge of Park and Recreation Department	18
	— 84
II. Number of which Boston maintains the part within its limits:	
In charge of Bridge and Ferry Division	7
In charge of Park and Recreation Department	5
	— 12
III. Number of which Boston pays a part of the cost of maintenance:	
In charge of Bridge and Ferry Division	7
In charge of Commissioners for Boston and Cambridge Bridges	7
In charge of Commissioners for Granite Avenue Bridge	1
	— 15
IV. Number of which Boston maintains the whole or a part of the wearing surface	
	34
V. Number maintained by Metropolitan District Commission	
	4
VI. Number maintained by railroad corporations:	
1. Boston & Albany Railroad	4
2. Boston & Maine and Boston & Albany Railroads	1
3. Boston & Maine Railroad, Eastern Division	1
4. Boston, Revere Beach & Lynn Railroad,	1
5. New York, New Haven & Hartford Railroad, Midland Division	13
6. New York, New Haven & Hartford Railroad, Old Colony Division	4
7. New York, New Haven & Hartford Railroad, Providence Division	16
	— 78

VII. Number maintained by the United States
Government 1

Total number 190

Table Showing the Widths of Channelways for Vessels in all Bridges
Over Navigable Water in the City of Boston in January, 1921.

NAME OF BRIDGE.	Location.	Number of Channelways.	Width.
* Anderson.....	Brighton to Cambridge.....	1	45 feet 0 inches.
Boston Elevated Railway.....	Boston to East Cambridge....	1	45 " 0 "
Boston Elevated Railway.....	Charlestown to Everett.....	1	75 " 0 "
Boston & Maine Railroad, Eastern Division.	Boston to Charlestown.....	1	39 " 8 "
Boston & Maine Railroad, Eastern Division.	Over Miller's river.....	1	35 " 0 "
Boston & Maine Railroad, Fitchburg Division.	Boston to Charlestown.....	1	36 " 0 "
Boston & Maine Railroad, Fitchburg Division (for teaming freight).	" ".....	1	36 " 7 "
Boston & Maine Railroad (freight), Southern Division.	Boston to East Cambridge....	1	40 " 0 "
Boston & Maine Railroad (passenger), Southern Division.	" ".....	1	39 " 8 "
Boston & Maine Railroad, Western Division.	Boston to Charlestown.....	1	39 " 4 "
Boston & Maine Railroad, Western Division.	Over Miller's river.....	1	35 " 6 "
Broadway.....	Over Fort Point channel.....	1	50 " 0 "
† Brookline street.....	Brighton to Cambridge.....	1	40 " 0 "
† Cambridge.....	Boston to Cambridge.....	1	50 " 0 "
Cambridge street.....	Brighton to Cambridge.....	1	36 " 6 "
Charles River Dam (lock).....	Boston to East Cambridge....	1	45 " 0 "
Charlestown (main channel).....	Boston to Charlestown.....	2	{ 50 " 0 "
Charlestown (north channel).....	" ".....		{ 49 " 9 "
Chelsea (north channel).....	Charlestown to Chelsea.....	2	125 " 0 "
Chelsea (south channel).....	" ".....	1	49 " 0 "
Chelsea street.....	East Boston to Chelsea.....	1	60 " 0 "
Congress street.....	Over Fort Point channel.....	1	50 " 0 "
Dorchester avenue.....	" ".....	1	41 " 3 "
Dover street.....	" ".....	1	40 " 6 "

* Drawless channelway; clear headroom of 12 feet above basin level (about elevation 8.0).

† Drawless channelway; clear headroom of 28 feet above basin level.

Table Showing Widths of Channelways, etc.—Concluded.

NAME OF BRIDGE.	Location.	Number of Channelways.	Width.
Grand Junction Railroad.....	Brighton to Cambridge.....	1	39 feet 3 inches.
Grand Junction Railroad.....	East Boston to Chelsea.....	1	60 " 0 "
Granite avenue.....	Dorchester to Milton.....	1	50 " 0 "
Harvard (Boston side).....	Boston to Cambridge.....	2	{ 36 " 7 "
Harvard (Cambridge side).....	" ".....		{ 37 " 0 "
Malden.....	Charlestown to Everett.....	1	75 " 0 "
Meridian street.....	East Boston to Chelsea.....	1	100 " 0 "
Neponset (temporary).....	Dorchester to Quincy.....	1	38 " 5 "
New York, New Haven & Hartford Railroad.	Over Fort Point channel.....	1	41 " 8 "
New York, New Haven & Hartford Railroad, Plymouth Division.	Dorchester to Quincy.....	1	51 " 0 "
* North Beacon street.....	Brighton to Watertown.....	1	45 " 0 "
Northern avenue.....	Over Fort Point channel.....	2	75 " 3 "
Prison Point.....	Charlestown to Cambridge.....	1	37 " 4 "
Summer street.....	Over Fort Point channel.....	1	50 " 0 "
Summer street.....	Over Reserved channel, South Boston.	1	39 " 3 "
Victory.....	Dorchester to Quincy.....	1	50 " 0 "
Warren.....	Boston to Charlestown.....	1	36 " 0 "
Western avenue.....	Brighton to Cambridge.....	1	36 " 0 "
Western avenue.....	Brighton to Watertown.....	1	36 " 0 "

* Drawless channelway; clear headroom of 12 feet above basin level (about elevation 8.0).

Bridge Openings.

BRIDGE.	STEAMERS.			SAILING VESSELS.			TUGS.			BARGES.			ALL OTHERS.			TOTAL NUMBER OF VESSELS.			Total Number of Cargoes.	Total Number of Openings.
	Day.		Total.	Day.		Total.	Day.		Total.	Day.		Total.	Day.		Total.	Day.		Total.		
	Night.			Night.			Night.			Night.			Night.			Night.				
Broadway.....	61	10	71	119	3	122	1,959	64	2,023	546	22	568	592	13	605	3,277	112	3,389	683	1,163
Charlestown.....				79	3	82	1,625	114	1,739	450	63	513	620	189	809	2,774	369	3,143	663	1,107
Chelsea North.....	936	77	1,013	152	3	155	8,232	329	8,561	1,282	66	1,348	2,354	100	2,454	12,956	595	13,531	1,979	5,490
Chelsea South.....	8		8	48	3	51	3,238	224	3,462	132	2	134	1,937	129	2,066	5,363	358	5,721	1,439	2,283
Chelsea street.....	60	31	91	3	2	5	1,743	712	2,455	241	130	371	1,141	238	1,379	3,188	1,113	4,301	978	2,324
Congress street.....	178	25	203	130	3	133	3,726	172	3,898	695	38	733	975	32	1,007	5,704	270	5,974	824	2,880
Dorchester avenue.....	46	4	50	124	2	126	1,973	72	2,045	578	18	596	612	29	641	3,333	125	3,458	632	1,816
Dover street.....	48	3	51	119	3	122	1,951	60	2,011	595	18	613	585	22	607	3,298	106	3,404	664	1,508
* L street.....	30	7	37	69	3	72	2,243	59	2,302	234	14	248	1,680	93	1,773	4,247	176	4,423	796	2,912
Malden.....	11	1	12	15		15	803	36	839	132	9	141	364	80	444	1,375	126	1,501	238	927
Meridian.....	582	93	675	59	6	65	6,494	903	7,397	776	139	915	2,998	340	3,338	10,909	1,481	12,390	1,645	7,340
Northern avenue.....	640	247	887	131	3	134	5,446	103	5,549	753	14	767	2,145	82	2,227	9,115	449	9,564	1,797	4,106
Summer street.....	148	11	159	124	3	127	3,656	160	3,816	693	30	723	1,042	80	1,122	5,663	284	5,947	993	2,977
Warren.....	12	12	24	70	5	75	1,578	89	1,667	489	44	533	617	184	801	2,766	334	3,100	640	1,835
Totals.....	2,760	521	3,281	1,242	42	1,284	44,667	3,097	47,764	7,596	607	8,203	17,662	1,611	19,273	73,969	5,878	79,847	13,971	38,738

* New Summer Street over Reserved channel.

ELEVATION AND DATUM PLANES REFERRED TO BOSTON CITY BASE.

Feet.	
*0.00	Boston city base. This base is used by the towns of Brookline and Watertown and the cities of Chelsea, Everett, Malden, Newton and Waltham.
—4.98	Cambridge city base.
+0.64	Somerville city base.
0.00	Metropolitan Park Commission base.
+0.64	State Department of Public Works, Division of Waterways and Public Lands.
0.00	Metropolitan Water Board base.
—100.00	Metropolitan Sewerage Board base.
—100.00	Boston Transit Commission base.
—100.00	Charles River Commission base.
15.45	Old bench mark, on coping of old dry dock at Charlestown Navy Yard.
15.11	New bench mark on coping of old dry dock at Charlestown Navy Yard, northwest end over crowfoot.
5.00	Piles to be cut off for building.
12.00	Minimum cellar bottom elevation when not waterproofed.
9.82	South Boston base. Formerly in use, now abandoned.
0.00	Mean low water about 1830.†
+0.34	Mean low water, 1867.†
+0.79	Mean low water, 1902.†
+0.58	Navy Yard base, 1902.†
10.63	Mean high water, 1902.†
5.71	Mean sea level, 1902.†
9.84	Mean rise and fall of tide, 1902.†

*Definition of Boston city base: "Boston city base is a datum plane 15 feet above the average height of the sill of the Charlestown dry dock." (Page 552, report of Committee on Charles River Dam, 1903.)

† John R. Freeman, civil engineer, in report to Committee on Charles River Dam, 1903 pp. 562, 569, 570.

HIGHEST RECORDED TIDES.

Feet.

15.62 April 16, 1851, average of seven observations North Market street and vicinity, leveled on in 1854 by Charles Harris, Surveying Division n. b. 22, p. 54 (15.10 above mean low water, United States Coast Survey Chart of Boston Harbor, 1857).

15.64 December 26, 1909, average of twenty-nine observations, on waterfront, Nut Island, to Deer Island, elevations determined in most cases by John H. Edmonds, before January 1, 1910, from points put in for that purpose, 1902 to 1905.

15.50 December 26, 1909, actual elevation at North Ferry, Boston proper, as observed on staff gauge, at high water.

From comparison of contemporary diary and newspaper accounts the only tide of this class prior to 1851, found by John H. Edmonds, was that of February 24, 1722-23, which was in all probability about 16.00.

The following tidal records may be of interest:

High Tides.

Plane of Reference, Boston City Base.

FEET.	Date.	When Taken.	By Whom.
16.00	Feb. 24, 1722-23,	By comparison.....	J. H. Edmonds.
15.62	April 16, 1851.....	Average of 7 observations.....	Charles Harris.
15.74	April 16, 1851.....	Navy Yard, staff gauge.....	Isaac Williams.
14.15	Jan. 23, 1898.....	Charlestown Bridge and East Boston Ferries,	
14.94	Nov. 27, 1898.....	Average of 15 observations.....	
13.72	Nov. 8, 1900.....	Malden Bridge.....	F. P. Spalding.
14.19	Nov. 25, 1901.....	Average of 10 observations.....	
13.60	Dec. 14, 1902.....	Average of 11 observations.....	
14.83	Jan. 25, 1905.....	Average of 34 observations.....	
14.70	Jan. 25, 1905.....	Inner harbor, 10 observations.....	
14.70	Jan. 25, 1905.....	North Ferry, Boston proper.....	J. H. Edmonds.
11.90	Dec. 26, 1909.....	North Ferry, Boston proper (p. m.).....	J. H. Edmonds.
13.50	Dec. 26, 1913.....	North Ferry, Boston proper.....	F. P. Spalding.
13.90	Nov. 20, 1914.....	Malden Bridge.....	H. H. McEnerlin.
14.30	Jan. 13, 1915.....	North Ferry, Boston proper.....	F. P. Spalding.
14.62	Jan. 13, 1915.....	Granite Avenue Bridge.....	G. A. Clough.
14.40	Nov. 7, 1919.....	North Ferry, East Boston side.....	F. P. Spalding.

Low Tides.

5.60	Nov. 27, 1898.....	Deer Island, metropolitan sewer station....	Self-recording gauge.
-3.50	Feb. 1, 1900.....	Deer Island, metropolitan sewer station....	Self-recording gauge.
-2.94	Feb. 3, 1900.....	South Boston station, Edison Electric.....	D. A. Harrington.
-3.00	Feb. 4, 1904.....	Deer Island, metropolitan sewer station....	Self-recording gauge.
-3.00	Mar. 23, 1905.....	Deer Island, metropolitan sewer station....	Self-recording gauge.

FERRY SERVICE.

The following steam ferryboats are in commission.

Name.	When Built.	Type.	Length.	Gross Tonnage.
Hugh O'Brien.....	1883	Side Wheel	175 ft. 3 in.	645
Governor Russell.....	1898	Propeller	164 " 3 "	713
Noddle Island.....	1899	"	164 " 3 "	710
General Sumner.....	1900	"	164 " 3 "	703
John H. Sullivan.....	1912	"	172 " 3 "	826
Lieutenant Flaherty.....	1921	"	174 "	727
Ralph J. Palumbo.....	1921	"	174 "	755

FINANCIAL STATEMENT FOR THE YEAR ENDING JANUARY 31, 1922.

1. Receipts.

Total cash receipts during the year	\$104,457 92
Cash in hands of tollmen at beginning of year	200 00
	<hr/>
	\$104,657 92
Cash paid over to City Collector . \$104,457 92	
Cash in hands of tollmen January 31, 1922	200 00
	<hr/>
	<u>\$104,657 92</u>

2. Appropriations and Expenditures.

Received from annual appropriation for Ferry Service	\$501,856 57
Received by transfer from Bridge Service	3,106 95
Unexpended balances from special appropriations February 1, 1921:	
East Boston Ferry improvements	* 843,399 29
Ferryboat "Noddle Island"	100,323 38
Ferryboats, repairs, etc.	3,359 68
	<hr/>
Total appropriations and balances carried over	\$1,452,045 87
Total expenditures	1,180,386 97
	<hr/>
	<u>\$271,658 90</u>

Unexpended balances of special appropriations, January 31, 1922, \$263,531 73	
Transferred to city treasury (maintenance appropriation)	8,127 17
	<hr/>
	<u>271,658 90</u>

* \$500,000.00 authorized in 1920 but not issued until 1921.

3. Result of Operations for the Year.

Receipts for the year (net income)		\$104,457 92
Ordinary expenses (maintenance appropriations)	\$496,836 35	
Interest paid on ferry debt	29,795 00	
Depreciation on ferryboats	29,419 75	
Decrease in value of machinery and tools	222 79	
Decrease in value of supplies on hand	339 32	
Decrease in value of fuel on hand	8,204 92	
Net outgo for the year		* 564,818 13
Net loss for the year		* <u>\$460,360 21</u>

* Does not include expenditure for special appropriations.

Comparative Balance Sheets at the Close of Each Year for Five Years.

	January 31, 1918.	January 31, 1919.	January 31, 1920.	January 31, 1921.	January 31, 1922.
<i>Assets.</i>					
Cash, balance on hand.....					
Cash, tollmen's capital.....	\$200 00	\$200 00	\$200 00	\$200 00	\$200 00
Rents receivable.....	100 52	113 54	137 87	146 20	187 85
Fuel and supplies in stock.....	7,238 24	14,436 34	19,950 60	35,852 94	27,308 70
City Treasurer (balance of appro- priation).....		27,280 67	27,904 00	947,082 35	263,531 73
Ferryboats (less depreciation).....	196,455 67	184,668 33	173,588 23	379,450 27	1,024,067 76
Machinery and tools.....	2,772 00	2,605 72	2,475 44	2,227 90	2,005 11
Real estate, land and buildings (assessors' valuation).....	610,100 00	610,100 00	610,100 00	610,100 00	610,100 00
Total tangible assets.....	\$816,866 43	\$839,404 60	\$834,356 14	\$1,975,059 66	\$1,927,401 15
Cost of avenues, etc., East Boston (previous to 1870) ¹	315,815 68	315,815 68	315,815 68	315,815 68	315,815 68
Deficiency of assets (loss).....	5,094,074 27	5,477,858 89	5,878,459 23	6,395,570 42	6,865,402 36
Totals.....	<u>\$6,226,756 38</u>	<u>\$6,633,079 17</u>	<u>\$7,028,631 05</u>	<u>\$8,686,445 76</u>	<u>\$9,108,619 19</u>
<i>Liabilities.</i>					
Capital invested by City of Boston to date.....	\$6,226,756 38	\$6,605,798 50	\$7,000,727 05	\$7,739,363 41	\$8,845,087 46
Appropriations account (credit balances).....		27,280 67	27,004 00	947,082 35	263,531 73
Total liabilities.....	<u>\$6,226,756 38</u>	<u>\$6,633,079 17</u>	<u>\$7,028,631 05</u>	<u>\$8,686,445 76</u>	<u>\$9,108,619 19</u>

Details of Capital Invested by the City of Boston.

Total expenditures to date per ferry books.....	\$13,331,024 31	\$13,800,322 33	\$14,202,449 75	\$15,113,454 44	\$16,309,053 08
Interest of debt for the year (per City Auditor).....	7,995 00	6,063 00	5,428 50	15,211 67	29,795 00
Interest previous years, etc. (net debts, per City Auditor).....	279,148 85	279,148 85	279,148 85	279,148 85	279,148 85
Total expenditures.....	<u>\$13,618,168 16</u>	<u>\$14,085,534 18</u>	<u>\$14,577,027 10</u>	<u>\$15,407,814 96</u>	<u>\$16,617,996 93</u>
Deduct total receipts paid to City Collector.....	7,391,411 78	7,479,735 68	7,576,300 05	7,668,451 55	7,772,909 47
Excess expenditures, capital.....	<u>\$6,226,756 38</u>	<u>\$6,605,798 50</u>	<u>\$7,000,727 05</u>	<u>\$7,739,363 41</u>	<u>\$8,845,087 46</u>

¹ Included in deficiency of assets in Table 4.

Comparison of Receipts, Appropriations and Expenditures for Five Years.

	1917-18.	1918-19.	1919-20.	1920-21.	1921-22.
RECEIPTS.					
From foot passengers (tollmen).....	\$39,690 86	\$37,548 30	\$42,285 00	\$37,926 79	\$41,876 31
" " foot passes (office sales).....	513 80	509 30	402 80	423 80	282 20
" " extra passengers on teams (gatenmen).....	1,710 71	1,514 59	1,586 24	1,546 34	1,740 60
" " team tickets (office sales).....	2,977 50	3,625 50	3,107 50	2,519 50	1,892 50
" " strip team tickets (tollmen).....	23,001 00	19,525 00	20,266 50	17,151 00	16,147 00
" " cash fares for teams (gatenmen).....	23,304 45	24,223 99	27,813 19	30,518 14	37,735 60
" " free ferries July 4.....	1 00	1 00	1 00	1 00	1 00
Total from rates.....	\$91,199 32	\$86,947 68	\$95,462 23	\$90,086 57	\$99,675 21
From rents.....	514 03	533 83	539 67	553 27	547 35
" " old material sold.....	84 35	290 50	.....	280 78	116 86
" " other sources.....	618 83	551 89	562 47	1,230 88	* 4,118 50
Total ordinary receipts.....	\$92,416 53	\$88,323 90	\$96,564 37	\$92,151 50	\$104,457 92
EXPENDITURES (ORDINARY).					
Office:					
Division engineer's salary (part) †.....	\$1,250 00	\$1,250 00	\$1,250 00	\$1,250 00	\$1,250 00
General foreman and cashier †.....	4,253 88	4,288 44	4,370 91	4,700 38	4,786 60
Clerks †.....	904 23	663 34	931 10	1,070 85	1,123 36
Retired veterans' pensions.....	4,645 58	5,373 07	5,612 79	5,257 47	5,442 26
Retired employees' pensions.....	3,754 16	3,201 36	2,997 27	2,345 64	2,160 00
Medical inspector (part).....	83 33	83 33	83 34	83 33	83 33
Stationery.....	132 72	138 12	158 94	198 99	271 09
Printing.....	1,263 78	1,662 75	1,150 33	1,653 24	1,713 44
Telephones.....	212 35	205 75	235 38	279 32	284 40
Advertising.....	56 50	36 50	50 90	60 15	104 45
Car fares.....	57 25	57 45	79 74	87 15	90 75
Postage.....	6 00	2 00	4 00	4 00	4 00
Premiums, surety companies.....	80 84	86 24	86 52	85 00	85 00
Total, office expenses.....	\$16,700 62	\$17,048 35	\$17,011 22	\$17,075 52	\$17,398 68

Total Expenditures Upon Ferries Since 1858-59.

Expenditures for avenues, paving, interest, etc., previous to the purchase of the ferries by the city	\$444,101 30
Purchase of ferries April, 1870	276,375 00
Expenditures for ferryboats since April, 1870	1,636,885 15
Expenditures for new buildings, piers, drops, etc.,	607,523 64
Expenditures for tools and fixtures (prior to 1910)	14,752 46
Expenditures for land from Lincoln's Wharf in 1887	5,562 52
Expenditures for land from Battery Wharf in 1893	10,000 00
Total expenditures on capital account	\$2,995,200 07
Expenditures for repairs of all kinds	1,675,023 25
Expenditures for fuel	2,208,442 03
Expenditures for salaries and wages	7,532,893 17
Expenditures for all other purposes	2,206,438 41
	<u><u>\$16,617,996 93</u></u>

Total Receipts from Ferries Since 1858-59.

Receipts from rents, etc., previous to purchase of ferries	\$29,588 56
Receipts from ferry tolls since purchase of ferries,	7,462,060 48
Receipts from rents since purchase of ferries	68,980 04
Receipts from sale of ferryboats	152,567 44
Receipts from all other sources, per ferry books,	29,178 10
Receipts from all other sources, additional, per City Auditor	30,734 85
Total receipts from all sources	\$7,773,109 47
Less amount with tollmen as capital	200 00
Total receipts, per auditor's figures	<u><u>\$7,772,909 47</u></u>

**REGULAR ANNUAL (ORDINARY) AND SPECIAL APPROPRIATIONS
(EXTRAORDINARY) OF THE FERRY SERVICE FOR THE YEAR
ENDING JANUARY 31, 1922.**

Appropriations (regular) for the year ending January 31, 1922	\$501,856 57
Received by transfer from Bridge Service	3,106 95
	<u>\$504,963 52</u>
Amount of expenditures (regular) for the year	496,836 35
Unexpended balance to City Treasury	<u><u>\$8,127 17</u></u>

SPECIAL APPROPRIATIONS.

EAST BOSTON FERRY, IMPROVEMENTS, ETC.

Unexpended balance February 1, 1921	\$843,399 29
Expenditures from February 1, 1921, to January 31, 1922:	
Labor, engineering	\$3,615 82
Traveling expenses	1,250 82
Telegrams and telephones	3 90
Amount paid to R. Minton Company:	
Labor and materials used in shop and on board reconstructing passageway gates, deck wash, emergency fire hose, boiler feed, circulating pumps, etc	645 38
Amount paid to Fay, Spofford & Thorndike for professional services for design and supervision of new ferryboats	7,750 00
Amount paid to Winnisimmet Ship Yard, Inc., under contract for building steel ferryboat "Ralph J. Palumbo." Boat accepted September 23, 1921:	
Contract price	\$335,000 00
Extra work: Build barrier gates with housed springs and swivel posts instead of type called for, at an agreed price of	950 00
Install extra building over fuel oil tanks, build additional passageway along coal bunkers, etc., at an agreed price of	975 00
	<u>\$336,925 00</u>
Less amount paid in 1920	67,000 00
	<u>269,925 00</u>
Amount paid to Groton Iron Works under contract for building steel ferryboat "Lieutenant Flaherty." Boat accepted Aug. 19, 1921:	
Contract price	\$379,950 00
Extra work: Build barrier gates with housed springs and swivel posts instead of type called for, at an agreed price of	950 00
	<u>\$380,900 00</u>
Less amount paid in 1920	\$75,990 00
Less amount retained to satisfy claims,	5,317 76
	<u>81,307 76</u>
	<u>299,592 24</u>
	582,783 16
Unexpended balance January 31, 1922	<u>\$260,616 13</u>

Ferryboats, Repairs, Etc.

Unexpended balance February 1, 1921					\$3,359 68
Expenditures from February 1, 1921, to January 31, 1922:					
Advertising					\$13 25
Amount paid to R. Minton Company under contract for work done and materials furnished on barriers and gates for ferryboat "Hugh O'Brien." Contract price				2,000 00	
Unexpended balance January 31, 1922					<u>2,013 25</u>
					<u>\$1,346 43</u>
<i>Ferryboat "Noddle Island."</i>					
Unexpended balance February 1, 1921					\$100,323 38
Expenditures from February 1, 1921, to January 31, 1922:					
Traveling expense					\$62 75
Amount paid to Kearfott Engineering Company, Inc.:					
Two (2) steering engines $4\frac{1}{2} \times 4\frac{1}{2}$ drum type				\$3,500 00	
Freight charges				33 58	
Amount paid to Richard T. Green Company under contract for repairs and renewals to double screw ferryboat "Noddle Island," (Work completed July 25, 1921.) Contract price				\$152,400 00	
Extra work on boilers				896 28	
Extra work repairing four (4) piston rods				200 00	
Two (2) new tail shafts				1,750 00	
Less amount retained				\$155,246 28	
				500 00	
Less amount paid in 1920				\$154,746 28	
				59,588 40	
Unexpended balance January 31, 1922				95,157 88	
					<u>\$1,569 17</u>

STATEMENT SHOWING RECEIPTS AT EACH FERRY.

North Ferry.

FROM TOLLMEN.	Foot Passengers.	From Tickets.	Totals.
Boston side.....	\$10,379 28	\$3,548 50	\$13,927 78
East Boston side.....	9,544 00	4,829 00	14,373 00
Totals.....	\$19,923 28	\$8,377 50	\$28,300 78

From tollmen \$28,300 78

From gatemen:

For 79,030 foot passengers at 1

cent \$790 30

For cash fares for teams 17,769 01

18,559 31

Total at North Ferry \$46,860 09

South Ferry.

FROM TOLLMEN.	Foot Passengers.	From Tickets.	Totals.
Boston side.....	\$11,387 81	\$4,245 00	\$15,622 81
East Boston side.....	10,565 22	3,534 00	14,099 72
Totals.....	\$21,953 03	\$7,779 00	\$29,722 53

From tollmen \$29,722 53

From gatemen:

For 95,030 foot passengers at 1

cent \$950 30

For cash fares for teams 19,966 59

20,916 89

Total at South Ferry \$50,639 42

North and South Ferries \$97,499 51

Tickets paid for at ferry office 2,174 70

Received in lieu of free ferries July 4, 1921 1 00

Total from rates \$99,675 21

Rents for the year 522 35

Sale of boats "D. D. Kelly" and "General Hancock," 3,500 00

Carried forward \$103,697 56

<i>Brought forward</i>	\$103,697 56
Sale of old material	116 86
Headhouse privileges	400 00
Care of public telephone booths	48 00
Commissions on public telephones	100 50
Kearfott Engineering Company	70 00
Hygienic Coin Lock Company	25 00

Total receipts for the year \$104,457 92

STATEMENT OF TRAVEL ON THE FERRIES FROM FEBRUARY 1,
1921, TO JANUARY 31, 1922, INCLUSIVE.

	North Ferry.	South Ferry.
Foot passengers at 1 cent each	2,071,358	2,290,333
Foot passenger by ticket	23,888	5,202
Foot passengers free	1,523	2,956
Total foot	<u>2,096,769</u>	<u>2,298,491</u>
One-horse teams, light motor trucks, pleasure carriages and runabouts,	224,788	244,043
Two-horse pleasure carriages, hacks and touring cars	159,002	140,789
Two-horse teams and motor trucks,	164,552	144,977
Three-horse teams and heavy motor trucks	407	1,198
Four-horse teams	1,537	2,774
Handcarts, etc.	2,065	2,057
Drag wheels	0	0
Free teams, hacks and motor ve- hicles	11,868	10,590
	<u>564,219</u>	<u>546,428</u>

MOTOR VEHICLE TRAFFIC (AS PER REPORTS OF CAPTAINS).

February 1, 1921, to January 31, 1922, included in above figures.

	North Ferry.	South Ferry.	Total.
Runabouts	43,338	46,857	90,195
Touring cars	¹ 176,719	² 146,504	323,223
Trucks	³ 142,444	⁴ 173,921	316,365
Total	362,501	367,282	729,783

¹ Includes 6,527 free.

² " 4,765 "

³ " 3,701 "

⁴ " 3,790 "

Total, 18,783 free.

Total paying foot passengers	4,390,781
Total foot passengers	4,479
Total foot passengers carried	<u>4,395,260</u>
Total paying teams	1,088,189
Total free teams	22,458
Total teams carried	<u>1,110,647</u>

TOTAL TRAVEL ON BOTH FERRIES FROM FEBRUARY 1, 1915, TO
JANUARY 31, 1921.

	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.	1921-22.
One-horse teams *.....	582,819	577,507	500,193	494,372	437,254	468,831
Two-horse teams †.....	291,795	308,564	306,672	330,023	314,109	309,529
Three-horse teams.....	4,723	3,538	3,471	4,372	4,105	1,605
Four-horse teams.....	6,640	7,089	7,598	4,542	3,774	4,311
Two-horse carriages, hacks ‡....	94,333	110,203	132,743	173,821	226,742	299,791
Two-cent tolls, hand carts, etc..	3,537	3,570	3,265	4,935	5,224	4,122
Dragwheels, etc.....	1	.....	8	6	1	
Paid teams at both ferries.....	983,848	1,010,471	953,950	1,012,071	991,209	1,088,189
Free teams at both ferries.....	12,067	15,177	21,708	17,447	16,650	22,458
Total teams at both ferries,	995,915	1,025,648	975,658	1,029,518	1,007,859	1,110,647
Foot passengers paid.	4,631,244	4,191,410	3,952,673	4,424,773	3,987,785	4,390,781
Foot passengers free.....	1,763	846	2,820	4,500	3,305	4,479
Total foot passengers.....	4,633,007	4,192,256	3,955,493	4,429,273	3,991,090	4,395,260

NOTE: The above team travel includes automobiles.

* Includes one-seat automobiles. † Includes motor trucks. ‡ Includes two-seat automobiles.

APPENDIX C.

REPORT OF THE DIVISION ENGINEER OF
THE HIGHWAY DIVISION.

MR. THOMAS F. SULLIVAN,
Commissioner of Public Works:

DEAR SIR,—I submit herewith a statement of the activities, operations and expenditures of the Paving and Lighting Services for the year ending January 31, 1922.

The maintenance expenditures of the Highway Division for the year were as follows:

Lighting Service	\$722,091 55
Paving Service	1,287,913 15
Total	<u>\$2,010,004 70</u>

PAVING SERVICE — *General Plant.*

The asphalt mixing plant at Brighton has been called on to supply other than its own section due to the removal of the Dorchester plant from Hancock street. Hot bituminous mix has been furnished Dorchester, Roxbury and West Roxbury, and part of the West End district for surfacing and patching. The nine steam rollers were overhauled and repaired and have been very active in resurfacing extensive areas of bituminous macadam during the year. Several of these steam rollers will not be servicable for another year, the state inspectors finding it necessary to reduce the steam pressure on account of the age and defective condition of the boilers.

The horses, one hundred six in number are in fair condition. I would recommend that no additions be made and that light trucks be purchased for the Paving Service.

The department forces have been very active resurfacing with bituminous macadam in the several districts of the city, some one hundred forty streets having been

so treated during the year, exclusive of the ordinary macadam repairs, repairs to paved streets, etc.

Early in the spring construction was resumed on twenty-four streets under contract and uncompleted from 1920. Contracts were awarded in 1921 to construct or repave forty-six streets and thirty-five of them were completed, leaving eleven to finish in 1922.

About 100,000 square yards of granite block pavement was laid on the following streets:

Washington street, from Archdale road to 75 feet south of Corinth street; Dudley street, from Alexander street to Stoughton street; Albany street, from Broadway to about 75 feet south of Troy street; Friend street, from Union street to Causeway street; Portland street, from Hanover street to Causeway street; Richmond street, from Hanover street to Atlantic avenue; Public Alley 909, from Massachusetts avenue to Hemenway street; Fargo street, from B street to C street; Clarendon street, from Stuart street to bridge over Boston & Albany Railroad; Stanhope street, from Morgan street to Trinity place; Columbus avenue, from Tremont street across Centre street; Dorchester avenue, from Park street to Ashmont street; Charles street, from Beacon street to Cambridge street.

About 93,000 square yards sheet asphalt and asphalt concrete laid on the following streets:

Cushman road, from Dustin street to Glencoe street; Centre street, from Allandale street to South street; South street, from Centre street to about 270 feet easterly; Market street, from Washington street across Western avenue; Arlington street, from Market street across Leicester street; Halifax street, from South Huntington avenue to Pond View avenue; Oriole street, from Bellevue street to Emmons road; Columbus avenue from Centre street to Walnut avenue; Seaver street, from Blue Hill avenue to Columbia road; Chelsea street from Maverick street to Day square; Bremen street from 230 feet northeast of Maverick street to Porter street; Huntington avenue, from Gainsborough street to Hemenway street; West Newton street, from Tremont street to Shawmut avenue; Pontiac street, from Tremont street to Hillside street; Imrie road, from Cambridge street to Allston Playground; Melton road, from Wallingford road to Colonial road; Thorndike street, from Commonwealth avenue to Brookline line; Chestnut Hill avenue, from Commonwealth avenue to Beacon

street; Beacon street and Chestnut Hill avenue, from Brookline line to Brookline line.

About 10,000 square yards of bitulithic pavement were laid on the following streets:

Dorchester street, from East and West Broadway to East and West Eighth street; Brenton street, from Glenway street to Greenwood street; Whitten street, from Dorchester avenue to Althea street.

About 70,000 square yards of Topeka pavement were laid on the following streets:

Hyde Park avenue, from Metropolitan avenue to River street; Babcock street, from Commonwealth avenue to Boston & Albany Railroad; Cummington street, from Commonwealth avenue to Boston & Albany Railroad; Belgrade avenue, from Anawan avenue to Centre street; Beech street, from West Roxbury Parkway to Belgrade avenue; Centre street, from South street to Spring street; Arbutus street, from Blue Hill avenue to Irma street; River street, from bridge over Providence Division Railroad to across Everett square; Centre street, from Forbes street to Boylston street; Green street, from Call street to Centre street.

About 12,000 square yards of wood block pavement were laid on Washington street, from Beach to Kneeland streets.

The number of lamps in use lighting the streets during the past year were:— 9,713 single mantle gas; 143 fire alarm gas; 5,416 magnetite arcs; 4,711 Tungsten incandescent. Total, 19,983, as compared with 19,889 for 1920.

Yours respectfully,

JAMES H. SULLIVAN,
Division Engineer.

HIGHWAY DIVISION — LIGHTING SERVICE.

FINANCIAL STATEMENT.

*Expenditures, February 1, 1921, to January 31, 1922.**Electric Lighting:*

	Arc.	
Edison Electric Illuminating Company	\$397,782 18	
Charlestown Gas and Electric Company	23,528 63	
	<hr/>	\$421,310 81

Incandescent.

Edison Electric Illuminating Company	\$83,303 84	
Charlestown Gas and Electric Company	21 12	
Charlestown Gas and Electric Company fire alarm lamps	85 33	
	<hr/>	83,410 29

Gas Lighting:

Boston Consolidated Gas Company	\$195,651 10	
Charlestown Gas and Electric Company	10,607 34	
Charlestown Gas and Electric Company fire alarm lamps	399 00	
	<hr/>	206,657 44

Salaries and Wages:

Division Engineer (part of)	\$1,250 00	
Clerk	1,976 92	
Stenographer and clerk	1,346 28	
Lighting inspector	1,550 00	
Pensions	360 00	
	<hr/>	6,483 20

Automobile Expenses:

Gasolene, oil, etc.	\$183 03	
Ford automobile (net cost)	405 00	
Registration	10 00	
Shoes and tubes, new and repairs,	83 70	
Supplies	18 66	
Repairs	158 86	
Storage	66 00	
	<hr/>	925 25

Carried forward \$718,786 99

<i>Brought forward</i>		\$718,786 99
<i>Construction:</i>		
Installing lamps and posts and removing and relocating lamps, posts, etc., less rebates		1,358 32
<i>Office Expenses:</i>		
Printing	\$117 90	
Postage	30 00	
Stationery and periodicals	63 22	
		211 12
<i>Miscellaneous:</i>		
Travel expenses (car fares)	\$22 70	
Typewriter repairs and inspection	12 00	
Gas lamp-posts	900 00	
Globes and shade frames	2 42	
		937 12
Installing boulevard lamps on Cleveland circle		798 00
Total		<u>\$722,091 55</u>

Revenue Credited to General Revenue.

Lighting Boston and Cambridge bridges	<u>\$2,726 42</u>
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The following is a statement of the work done during the year under the supervision of the Division Engineer, Highway Division:

Arc lamps have been provided for skating and tobogganing during the season at Franklin Field, Franklin Park and Wood Island Park the same as in years past.

There has been installed in Cleveland circle, Brighton, 16 Boulevard White Way lamps. In addition to these, throughout the city the lighting system was increased by the installation of 51 new magnetite arcs and 55 incandescents, and 38 gas lamps at various locations. The usual amount of regulation and relocation of lamps and services, made necessary by street construction, the building of sewers and other works has been conducted throughout the year.

Petitions and requests for new lamps received from citizens and from officials, also complaints in relation to the Lighting Service have been investigated and attended to. All streets in the underground district prescribed for the year have been inspected and necessary changes and additions have been made.

The number of miles of streets and ways lighted by this service is as follows:

Public streets and alleys	606.33
Public footways	1.31
Park roads, footways and private streets and alleys, approximately	300.00
Total	<u>907.64</u>

During the year the following defects were reported by the police: arc lamps, 9443; incandescent, 5,737; and gas lamps, 2629.

There are in operation 19,983 arc, incandescent and gas lamps, divided as follows: 5,416 arcs, 4,711 tungsten incandescents, 9,713 single mantle gas lamps and 143 fire alarm gas lamps.

LAMPS INSTALLED.

Magnetite arc lamps	62	
Tungsten lamps	55	
Single mantle gas lamps	38	
	—	155

LAMPS DISCONTINUED

Magnetite arc lamps	0	
Tungsten lamps	11	
Single mantle gas lamps	50	
	—	61
Net increase		<u>94</u>

The following table shows the work of setting, repairing and altering lamp-posts, brackets, services, etc.:

	Set for Lamps.	Set in Place of Broken Posts.	Shifted to New Location.	Straight- ened.	Reset to Line and Grade.	Unused Posts Removed.	Repaired.	Laid.	Relaid	Recon- nected.	Cleared.	Set in Place of Brackets.	Shades.
Gas posts.....	38	59	.....	2	51	41	3	.....	3	.....	89	2	20
Are posts.....	62	.....	16	.....	59	8	1	.....	.....	.....	.....	.....	15
Tungsten posts.....	17	.....	1	.....	7	4	.....	.....	.....	13	.....	.....	8
Gas brackets.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....
Are fixtures.....	.....	.....	7	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Tungsten fixtures.....	38	.....	.....	.....	.....	7	.....	.....	.....	16	.....	.....	.....

The following table shows the number of lamps of various types in use on January 1, 1922, as compared with the number in use on January 1, 1921:

	January, 1922.	January, 1921.	Increase or Decrease.
Single mantle gas.....	9,713	9,725	—12
Fire alarm gas.....	143	143	.....
Magnetite arc.....	5,416	5,354	62
Tungsten incandescent.....	4,711	4,667	44
	19,983	19,889	94

STREET LAMP OUTAGES.

Rebates for lamps not lighted on schedule time or out before the proper time have been received on the various monthly bills as follows:

DATE.	Incandescent.	Gas.	Arc.
February, 1921.....	\$11 09	\$30 78	\$257 55
March.....	13 88	42 53	276 01
April.....	13 02	53 66	244 07
May.....	6 26	21 31	150 40
June.....	7 88	7 68	96 36
July.....	3 92	9 17	84 64
August.....	2 66	4 13	67 41
September.....	20 45	6 88	124 28
October.....	5 66	3 56	129 42
November.....	5 68	9 91	177 22
December.....	10 59	19 36	177 18
January, 1922.....	32 84	27 62	372 64
	\$133 93	\$236 59	\$2,757 18

GAS LIGHTING.

There are 9,713 single mantle gas lamps and 143 open flame fire alarm signal lamps.

The city furnishes the lamp-posts, the gas company set the lamp-posts and provides service pipes laid from the gas mains to the top of the posts; maintain all such pipes and posts in good condition and repair; furnish gas, lanterns, burners and all other necessary equipment, including labor for lighting and care.

The lighting service provides for the gas, lighting and care of the fire alarm signal lamps, and the fire department for the lanterns, posts, setting and repairing of same.

Gas Lamps.

Lighting Contract.	Gas District.	Number of Lamps.	Type of Lamps.	Rated Candle Power.	Gas Consumed per Lamp per Hour.	Hours of Burning per Annum.	Cost of Gas per Lamp per Annum.	Cost per Lamp for Lighting, Care and Repair per Annum.	Total Cost per Lamp.
Boston Consolidated Gas Company.	South Boston, East Boston, Dorchester, Roxbury, Brighton, West Roxbury.	9,208	Single mantle.	60	3 feet.	4,000	\$9 00	\$12 00	\$21 00
		16	Single mantle F. A.	60	3 feet.	4,000	9 00	12 00	21 00
		108	Open flame.	60	4 feet.	4,000	9 00	12 00	21 00
Charlestown Gas and Electric Company.	Charlestown.....	505	Single mantle.	60	3 feet.	4,000	9 00	12 00	21 00
		19	Open flame F. A.	60	3 feet.	4,000	9 00	12 00	21 00

ELECTRIC LIGHTING.

There are in use 5,416 magnetite arc lamps, 3,361 40 candle power, 1,310 60 candle power, 19 100 candle power, 10 200 candle power, and 11 600 candle power tungsten lamps.

The electric companies provide and set the lamp-posts, except the lamp-posts for incandescent lamps supplied from underground circuits, furnish lamps, overhead wires, underground conduits, cables and connections and all other necessary equipment and maintain them in good condition and repair.

The lighting rates for electric lamps are in accordance with the following table:

DESCRIPTION OF LAMP.	Fixed Costs per Lamp per Year.	Running Costs per Lamp Hour.
40 candle power incandescent lamp, series	\$10 80	1 $\frac{5}{8}$ cent
40 candle power incandescent lamp, multiple		1 $\frac{3}{8}$ cent
60 candle power incandescent lamp, series	12 00	1 $\frac{1}{2}$ cent
60 candle power incandescent lamp, multiple		1 $\frac{1}{8}$ cent
100 candle power incandescent lamp, series	18 00	1 $\frac{1}{2}$ cent
100 candle power incandescent lamp, multiple		1 $\frac{1}{8}$ cent
200 candle power incandescent lamp, series	25 00	1 cent
500 candle power incandescent lamp, multiple	36 00	1 $\frac{1}{8}$ cent

A discount of 10 per cent is made on the above rates for lamps in all sections of the city. A deduction at the rate of 1 cent per hour for lamps of 100 candle power or less and 5 cents per hour for all other lamps is made for outages.

Arc Lamps.

COMPANY.	Number of Lamps.	Connected.	Type of Lamps.	Type of Circuit.	At Terminal.	Lighting Hours.	Cost of Lamp per Annum.
Edison Electric Illuminating Company	1,723	Overhead.	Magnetite.	Series 6.6 amp. D. C.	528	3,828	\$79 60
	3,368	Underground.	Magnetite.	Series 6 6 amp. D. C.	528	3,828	79 60
	25	Underground.	Magnetite.	Multiple D. C.	.....	3,828	\$7 52
Charlestown Gas and Electric Company	224	Overhead.	Magnetite.	Series 6.6 amp. D. C.	528	3,828	79 60
	76	Underground.	Magnetite.	Series 6.6 amp. D. C.	528	3,828	79 60

NOTE.—In the above the candle power figures are the official designations. The wattage figures are here eliminated

Incandescent Lamps.

COMPANY.	Number of Lamps.	Type of Lamp.	Type of Circuit.	Candle Power.	Lighting Hours.	Cost of Lamp per Annum.
Edison Electric Illuminating Company.....	1,901	Tungsten.	Series 6.6 amp. D. C.	40	3,828	\$15 92
	745	Tungsten.	Series 6.6 amp. D. C.	60	3,828	17 69
	4	Tungsten.	Series 6.6 amp. D. C.	100	3,828	29 98
	1,449	Tungsten.	Multiple D. C.	40	3,828	18 33
	565	Tungsten.	Multiple D. C.	60	3,828	21 14
	15	Tungsten.	Multiple D. C.	100	3,828	33 43
	10	Tungstens.	Series 6.6 amp. D. C.	200	3,828	63 28
	11	Tungsten.	Multiple D. C.	500	3,828	84 08
	10	Tungsten.	Series 6.6 amp. D. C.	40	3,828	15 92
	1	Tungsten.	Multiple D. C.	60	3,828	21 14
Charlestown Gas and Electric Company.....						

NOTE.— In the above the candle power figures are the official designations. The wattage figures are here eliminated.

PAVING SERVICE.

The following is a description of the most important work done during the year:

GRANITE BLOCK PAVEMENT.

Albany street, from Broadway to about 75 feet south of Troy street. (See "Assessment Streets.")

Bremen street, from 230 feet northeast of Maverick street, across Porter street is about 1,239 feet in length, with a roadway 24 feet and sidewalks 7 to 9 feet in width. A contract for paving this street was awarded to Coleman Brothers, Inc., May 13, 1921. The contractor did the excavating, and reset the edgestone. The roadway was paved with second-hand granite block with grout joints on a gravel base. Artificial stone sidewalks were laid on the north side and on the south side the bricks were relaid. Work was commenced May 12, 1921, and completed July 11, 1921. The straight edgestone, circles and corners were furnished by the city and delivered on the line of work. The second-hand granite blocks were hauled by the contractor from Chelsea street. All other materials were furnished by the contractor. The sidewalks and roadway were laid under a five year maintenance guaranty. The former surface of this street was macadam roadway with brick sidewalks.

Clarendon street, from Stuart street to Boston & Albany Railroad Bridge. (See "Assessment Streets.")

Columbus avenue, from Tremont street to Centre street, is about 3,170 feet in length. A contract for reconstructing the surface of this street was awarded to John Kelly Company June 24, 1921. Work was begun June 15, 1921, and completed October 17, 1921. This street, 80 feet in width, has a roadway 54 feet in width, with a double track for surface cars in the centre, and is paved with granite blocks, grout joints, on a 6-inch cement concrete base, using the best of the blocks found in the street and reshaping the existing concrete base with new material to conform with the proper grade and crown. The sidewalks are of artificial stone 13 feet in width. The street car tracks were regulated and repaved by the Boston Elevated Railway Company. The city furnished the new edgestone, circles and corners on the line of the work and the granite blocks for replacements at the Massachusetts avenue lot. The contractor did the excavating, took up, cleaned and relaid the granite blocks, set the edgestone, furnished all the materials for the work, other than those furnished by the city, and hauled the surplus

paving materials to the city yard. The granite block pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty.

Dorchester avenue, from Park street to the railroad bridge at Ashmont street is about 4,700 feet in length. A contract for reconstructing the surface of this street was awarded to Gore, Inc., July 22, 1921. Work was begun July 20, 1921, and completed December 3, 1921. This street is about 56 feet in width. The roadway is about 38 feet in width with a double track for surface cars in the center and is paved in part with granite blocks and in part with wood blocks, all on a 6-inch cement concrete base. The sidewalks are of artificial stone, 9 feet in width with a granite edgestone. The contractor took up the existing granite block paving in the easterly roadway, dummy and westerly gutter, then recut and relaid the best of the blocks with grout joints in the easterly roadway and dummy between car tracks. New blocks, furnished by the city on the line of the work and laid with an asphaltic mastic joint by the contractor were used to pave the westerly roadway. The wood blocks were furnished and laid with a sand joint by the contractor, on both roadways from Dix street to Mather street and from King street to Roseland street. The street car tracks were regulated and repaved to conform with the rest of the roadway by the Boston Elevated Railway Company. The city furnished the new edgestone, circles and corners on the line of the work and the paving blocks for replacements at the Massachusetts avenue lot. The contractor did the excavating, set the edgestone, furnished all the materials for the work, other than those furnished by the city and hauled the surplus paving materials to the city yard. The granite block and wood block in the roadways and the artificial stone sidewalks were laid under a five-year maintenance guaranty.

Dudley street, from Alexander street to Stoughton street, is about 1,400 feet in length. A contract for repaving this street was awarded to DeStephano Brothers August 18, 1920. Work was begun September 16, 1920, suspended December 15, 1920, resumed March 17, 1921, and completed April 8, 1921. This year 500 square yards of granite block pavement with grout joints was laid to complete the work.

Fargo street, South Boston, from B street to C street. ("See Assessment Streets.")

Friend street, from Union street to Causeway street is about 1,860 feet in length. A contract for paving this street with second-hand granite blocks without joints on a concrete base was awarded to B. E. Grant Company October 11, 1920. This street is about 35 feet in width with a roadway 25 feet in width and sidewalks 5 feet in width. Work was commenced October 22, 1920, suspended November 15, 1920, resumed March 17, 1921 and completed April 27, 1921. The Contractor set the edgestone to the line and grade, barred out and culled and piled

the old granite blocks, removed the old concrete base where directed and excavated the roadway. The roadway was paved with second-hand granite blocks with grout joints on a 6-inch Portland cement concrete base. The brick sidewalks were replaced with artificial stone. The straight edgestone, circles and corners were furnished by the city on the line of the work. Second-hand granite blocks for renewals were furnished by the city at the Massachusetts avenue lot and other yards and hauled by the contractor. All other materials were furnished by the contractor. In connection with this contract Merrimac street, from Haymarket square to Portland street, was paved with second-hand granite blocks with grout joints on a 6-inch Portland cement concrete base. The brick sidewalks were replaced with artificial stone. Market street, between Friend street and Canal street, was repaved with second-hand granite blocks, with grout joints on a 6-inch Portland cement concrete base and the brick sidewalks were relaid. The granite block paving and the artificial stone sidewalks were laid under a five-year maintenance guaranty. The former surface of this street was granite block gravel base and joints between Union street and Sudbury street and granite block, pitch joints and concrete base between Sudbury street and Causeway street.

Portland street, from Hanover street to Causeway street, is about 1,696 feet in length. A contract for paving this street with second-hand granite blocks with grout joints on a concrete base, was awarded to B. E. Grant Company, October 11, 1920. The street is about 50 feet in width with a roadway 34 feet in width and sidewalks 8 feet in width. Work was commenced April 16, 1921, and completed June 28, 1921. The contractor set the edgestone to line and grade, barred out, culled and piled the old granite blocks, removed the old concrete base where directed and excavated the roadway. The roadway was paved with second-hand granite blocks with grout joints on a 6-inch Portland cement concrete base. The brick sidewalks were replaced with artificial stone. The straight edgestone, circles and corners were furnished by the city on the line of work. Second-hand granite blocks for renewals were furnished by the city at the Massachusetts avenue lot and other yards and hauled by the contractor. All other materials were furnished by the contractor. In connection with this contract, Hanover street, from Washington street to Elm street was paved with second-hand granite blocks with grout joints on the existing concrete base. Traverse street, from Merrimac street to Canal street, was paved with second-hand granite blocks with grout joints on the existing concrete base. Market street, from Portland street to Friend street, was paved with second-hand granite blocks with grout joints on a 6-inch Portland cement concrete base. The brick sidewalks were replaced with artificial stone. The car tracks on Portland street were removed between Hanover

street and Merrimac street, and from Merrimac street to Causeway street single tracks were laid and the area between the rails paved with second-hand granite blocks with grout joints on a 6-inch concrete base by the Boston Elevated Railway Company. The granite block paving and artificial stone sidewalks were laid under a five-year maintenance guaranty. The former surface of this street was granite block, pitch joints on a concrete base.

Public Alley 909, from Massachusetts avenue to Hemenway street. (See "Assessment Streets.")

Richmond street, from Hanover street to Atlantic avenue, is about 1,213 feet in length. A contract for paving this street with second-hand granite blocks, with grout joints on a 6-inch Portland cement concrete base, was awarded to B. E. Grant Company October 11, 1920. This street is from 40 to 50 feet in width with a roadway from 26 to 34 feet in width and sidewalks from 7 to 8 feet in width. Work was commenced June 11, 1921, and completed July 12, 1921. The contractor set the edgestone to line and grade, barred out, culled and piled the granite blocks and excavated the roadway. The roadway was paved with second-hand granite blocks with grout joints on a 6-inch Portland cement concrete base. The brick sidewalks were replaced with artificial stone. The straight edgestone, circles and corners were furnished by the city on the line of the work. Second-hand granite blocks for renewals were furnished by the city at the Massachusetts avenue lot and other yards and hauled by the contractor. All other materials were furnished by the contractor. The granite block paving and artificial stone sidewalks were laid under a five-year maintenance guaranty. The former surface of the street was granite blocks, gravel base and joints.

Stanhope street, from Morgan street to Trinity place. (See "Assessment Streets.")

Washington street, from 69 feet south of Corinth street to Denton terrace, is about 2,160 feet in length. A contract for constructing this street was awarded Gore, Inc., August 30, 1921. Work was begun October 10, 1921, and suspended December 15, 1921. It is a 60-foot street with granite edgestones, 5-inch granite blocks laid on 6-inch concrete base, with asphalt mastic joints each side of street car tracks and is to have 8-foot artificial stone sidewalks. The granite block pavement and artificial stone sidewalks are laid under a five-year maintenance guaranty. With the exception of the artificial stone sidewalk, a small part only of which was laid this year, the street is practically completed. The edgestone and granite blocks were furnished by the city on the line of work. All other materials were furnished by the contractor. The street car tracks and space between, from 69 feet south of Corinth street to about 40 feet south of Cornell street, was paved with recut granite blocks on a 6-inch concrete base

with grout joints by the Boston Elevated Railway Company and paid for by the city under agreement. The Boston Elevated Railway Company furnished all materials.

Washington street, from Archdale road to 75 feet south of Corinth street, is about 3,387 feet in length. A contract for constructing the surface of this street was awarded to William J. Barry June 25, 1920. Work was started July 1, 1920, suspended December 24, 1920, resumed April 12, 1921, and completed April 22, 1921. The work done this year consisted of laying artificial stone sidewalks under a five-year maintenance guaranty. The street car tracks and space between was paved with recut granite blocks on 6-inch concrete base with grout joints by the Boston Elevated Railway Company and paid for by the city under agreement. The Boston Elevated Railway Company furnished the materials.

ASPHALT PAVEMENT.

Allenwood street, from Anawan avenue to Pelton street. (See "Assessment Streets.")

Centre street, from Allandale street to South street. (See "Assessment Streets.")

Chilton road, from Weld street to 411 feet northwesterly. (See "Assessment Streets.")

Cushman road, from Dustin street to Glencoe street. (See "Assessment Streets.")

South street, from Centre street about 270 feet easterly. (See "Assessment Streets.")

ASPHALT CONCRETE.

Arborway, from Forest Hills street to Morton street. (See "Assessment Streets.")

Arbutus street, from Blue Hill avenue to Irma street. (See "Assessment Streets.")

Archdale road, from Washington street to South street. (See "Assessment Streets.")

Arlington street, Brighton, from Market street across Leicester street is about 475 feet in length. A contract to pave the surface of this street with Simasco pavement was awarded to Simpson Brothers Corporation November 2, 1920. Work started October 29, 1920, suspended December 8, 1920, resumed May 10, 1921, and completed June 8, 1921. The contractor set the new edgestone and reset the existing edgestone, furnished and laid the artificial stone sidewalks on a cinder foundation and laid the Simasco pavement on the old macadam surface for a foundation. The artificial stone sidewalks and Simasco pavement were laid under a 5-year maintenance guaranty. The city furnished the new edgestone, and all other materials necessary to do the work were furnished by the contractor, who also hauled the old gutter block to the Chestnut Hill avenue paving yard.

Babcock street, from Commonwealth avenue to the Boston & Albany Railroad. (See "Assessment Streets.")

Beacon street and Chestnut Hill avenue, including Cleveland circle, is about 1,517 feet in length. A contract for paving this street and constructing the circle was awarded to John J. Lane June 13, 1921. Work started June 24, 1921, and was completed October 15, 1921. Beacon street at this location is 160 feet wide, with 15-foot sidewalks, consisting of 10 feet of artificial stone sidewalks and the 5 feet of edgestone and planting space. There are two roadways, one 50 and one 30 feet in width, a bridle path 20 feet wide and a track location and loam space 30 feet wide. Cleveland circle is 175 feet in radius, consisting of a sidewalk 20 feet wide, made up of a 10-foot artificial stone sidewalk and 10 feet of loam space, a roadway 65 feet wide and an inner circle, 90-foot radius, surrounded by a curb and is reserved as a planting or loam space. Chestnut Hill avenue, from Cleveland circle to the Brookline line, is 60 feet in width with 10-foot sidewalks. The contractor did the subgrading, set the new edgestone and reset the old edgestone, furnished and laid artificial stone sidewalks and resurfaced the two roadways on Beacon street with asphalt concrete on macadam foundation. The roadway around the circle and Chestnut Hill avenue to the line and Beacon street to the reservoir reservation were paved with asphalt concrete on a 6-inch concrete base. The roadways and sidewalks were laid under a 5-year maintenance guaranty. The city furnished the new edgestone on the line of work and the contractor furnished all other materials necessary to do the work, including loam and seed for loam spaces and gravel for the bridle path.

Beech street, from West Roxbury Parkway to Belgrade avenue. (See "Assessment Streets.")

Belgrade avenue, from Anawan avenue to Centre street. (See "Assessment Streets.")

Centre street, from Forbes street to Boylston street, is about 1,386 feet in length. A contract to pave the surface of this street with Topeka pavement was awarded to the Central Construction Company November 23, 1920. Work was begun November 18, 1920, suspended December 22, 1920, resumed April 28, 1921, and completed June 8, 1921. The contractor set the new edgestone and reset the old edgestone, removed the old gutter blocks, subgraded the roadway and laid the Topeka pavement on the old macadam for a base. Artificial stone sidewalks were furnished and laid on the west side of the street and the old brick sidewalks were relaid on the easterly side. The artificial stone sidewalks and the Topeka pavement were laid under a 5-year maintenance guaranty. The city furnished the new edgestone and the sidewalk brick. All other materials necessary for the completion of the work were furnished by the contractor.

Centre street, from South street to Spring street. (See "Assessment Streets.")

Centre street, from Columbus avenue across Hyde square, is about 3,270 feet in length and from Boylston street across Green street is about 2,520 feet in length. A contract for constructing this street was awarded to B. E. Grant Company August 10, 1921. Work was begun August 4, 1921, and suspended December 10, 1921. From Columbus avenue across Parker street, the edgestone was reset and the old granite blocks were recut and relaid on 6-inch concrete base with grout joints, each side of street car tracks. From Parker street, across Hyde square on the northerly side and across Forbes street on the southerly side, edgestone was reset and asphaltic concrete laid on macadam foundation each side of street car tracks. Recut granite block 9 inches wide were laid on outside of street car rails on 6-inch concrete base with grout joints. Artificial stone sidewalks were completed on north side from about 80 feet east of Gay Head street to Creighton street. The intersection of Moraine street and South Huntington avenue and of Boylston street were laid with asphaltic concrete on macadam foundation and brows of recut granite blocks on 6-inch concrete base with grout joints laid to car tracks. From Moraine street to Lochstead avenue on the west side and from Boylston street to Robinwood avenue on the east side, edgestone was set, asphaltic concrete on 6-inch concrete base and recut granite block brows on 6-inch concrete base with grout joints, were laid at car rails, on each side of street car tracks from Boylston street and Moraine street to about 120 feet south of Lochstead avenue on the west side, and to about 190 feet south of Spring Park avenue on the east side. The asphaltic concrete, granite block paving and artificial stone sidewalks were laid under a 5-year maintenance guaranty. The edgestone was furnished by the city on the line of work. A part of the recut blocks were furnished by the city and hauled by the contractor. All other materials furnished by the contractor. The street car tracks and space between, was paved with recut granite blocks on 6-inch concrete base with grout joints by the Boston Elevated Railway Company. The space between the tracks was paid for by the city under agreement. The Boston Elevated Railway Company furnished the material.

Chelsea street, from Maverick street to Day square, is about 3,972 feet in length with a roadway 50 feet in width and sidewalks 10 feet in width. A contract for constructing this street was awarded to Coleman Brothers, Inc., May 13, 1921. Work was commenced May 9, 1921 and finished July 21, 1921. The contractor did the excavating and reset the edgestone. The roadway, from Maverick street across Gove street, was paved with asphalt concrete on a 6-inch Portland cement concrete base and between Gove street and Day square with asphalt concrete on macadam foundation. The sidewalks were constructed of artificial stone. The straight edgestone, circle and corners were furnished by the city and delivered on the

line of work. All other materials were furnished by the contractor. The sidewalks and roadway were laid under a five-year maintenance guaranty. The former surface of this street was granite block, gravel joints and tar and asphalt macadam with brick sidewalks.

Chestnut Hill avenue, from Beacon street to Commonwealth avenue. (See "Assessment Streets.")

Cumington street, from Commonwealth avenue to Boston & Albany Railroad. (See "Assessment Streets.")

Columbus avenue, from Centre street to Walnut avenue, is about 4,020 feet in length. A contract to pave the surface of this street with asphalt concrete was awarded to Simpson Brothers Corporation, May 11, 1921. Work was started May 6, 1921, and finished August 9, 1921. The existing edgestone was reset, artificial stone sidewalks were furnished and laid and the roadway was subgraded and paved with asphalt concrete on the old macadam for a base. The sidewalks and roadway were laid under a five-year maintenance guaranty. The city furnished the new circles, edgestone and corners and all other materials were furnished by the contractor, who hauled the old cross walks, gutter blocks and sidewalk brick to the Highland Street Paving Yard.

Green street, from Centre street to Call street, is about 1,992 feet in length. A contract to pave the surface of this street with Topeka pavement was awarded to the Central Construction Company November 23, 1920. Work was begun March 31, 1921, and completed June 8, 1921. The work done was to reset the edgestone, furnish and lay artificial stone sidewalks, remove the old block gutters, subgrade the roadway and lay the Topeka pavement on the old macadam for a foundation. The artificial stone sidewalks and pavement were laid under a five-year maintenance guaranty. The city furnished the circular edgestone and all other materials necessary to do the work were furnished by the contractor.

Halifax street, from South Huntington avenue to Pond View avenue. (See "Assessment Streets.")

Hastings street, from Centre street to Corey street. (See "Assessment Streets.")

Huntington avenue (north side), from the east side of Gainsborough street to the west side of Hemenway street, is about 1 882 feet in length. A contract to pave the surface of this street with asphalt concrete was awarded to the Andrews Construction Company May 12, 1921. Work started May 12, 1921, and was completed July 8, 1921. New edgestone was set and much of the existing edgestone reset. Artificial stone sidewalks were furnished and laid and the roadway was subgraded or brought up to the proper subgrade with crushed stone and the asphalt concrete laid on the macadam foundation. The sidewalks and pavement were laid under a five-year maintenance guaranty. The city furnished the new edgestone on the line of

work and all other materials required were furnished by the contractor, who hauled the old gutter blocks, crosswalks and sidewalk brick to the Massachusetts avenue lot.

Hyde Park avenue, from Metropolitan avenue to River street. (See "Assessment Streets.")

Imrie road, from Cambridge street to Allston Playground. (See "Assessment Streets.")

Market street, from Washington street across Western avenue, is about 5,015 feet in length. A contract to pave the surface of this street with a Simasco pavement was awarded to Simpson Brothers Corporation November 2, 1920. Work on the street was started November 15, 1920, suspended December 8, 1920, resumed March 17, 1921, and completed June 24, 1921. The contractor set the new edgestone and reset the old edgestone, hauled the gutter blocks to the Chestnut Hill Avenue Paving Yard, furnished and laid the artificial stone sidewalks, subgraded the old roadway and laid the Simasco pavement on the old macadam for a foundation. The artificial stone sidewalks and pavement were laid under a five-year maintenance guaranty. The brows and dummy of car tracks and some of the paving in the tracks were relaid with grout joints. The city furnished the new edgestone and all other materials necessary to do the work were furnished by the contractor. In connection with this work Western avenue was paved down to the Watertown Bridge.

Melton road, from Wallingford road to Colonial road. (See "Assessment Streets.")

Morton street, from Forest Hills avenue to 1,200 feet easterly. (See "Assessment Streets.")

North Beacon street, from Market street to beyond Parsons street. (See "Assessment Streets.")

Oriole street, from Bellevue road to Emmons road. (See "Assessment Streets.")

Pontiac street, from Tremont street to Hillside street. (See "Assessment Streets.")

River street, from bridge over Providence Division Railroad across Everett square, is about 1,269 feet in length. The contract for constructing a Topeka pavement was awarded to the Central Construction Company November 2, 1920. Work was begun April 25, 1921, and completed September 20, 1921. Edgestone was reset, recut granite blocks laid on 6-inch concrete base with grout joints in single track and brows to tracks, 2-inch Topeka pavement laid on macadam foundation and artificial stone sidewalks constructed. The Topeka pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty. Recut blocks were furnished by the city and hauled by the contractor. Circular edgestone was furnished by the city on the line of the work. Other materials were furnished by the contractor.

Seaver street, from Blue Hill avenue to Columbia road, is about 651 feet in length. A contract to pave the surface

of this street with asphalt concrete was awarded to Simpson Brothers Corporation May 11, 1921. Work started June 9, 1921, and was completed August 13, 1921. New edgestone was set and the old edgestone was reset where necessary. Artificial stone sidewalks were furnished and laid and the roadway was subgraded and paved with asphalt concrete on the old macadam for a base. The sidewalks and roadway were laid under a five-year maintenance guaranty. The city furnished the straight and circular edgestone and corners on the line of work and all other materials were furnished by the contractor, who hauled the surplus and unused materials to the Highland Street Yard. Considerable asphalt concrete was laid on the approaches at Columbia road and Blue Hill avenue.

Stuart street, from Dartmouth street to Trinity place. (See "Assessment Streets.")

Thorndike street, from Commonwealth avenue to the Brookline line. (See "Assessment Streets.")

West Newton street, from Tremont street to Shawmut avenue, is about 757 feet in length. A contract to pave the surface of this street with asphalt concrete, was awarded to the Andrews Construction Company May 12, 1921. Work was begun May 31, 1921, and completed June 18, 1921. The old edgestone was reset, artificial stone sidewalks were furnished and laid and the roadway was subgraded and paved with asphalt concrete on the old macadam for a base. The sidewalks and pavement were laid under a five-year maintenance guaranty. The city furnished the circles and edgestone on the line of work and all other materials were furnished by the contractor, who hauled the old crosswalks, gutter blocks and sidewalk brick to the Massachusetts avenue lot.

BITULITHIC PAVEMENT.

Brenton street, from Glenway street to Greenwood street. (See "Assessment Streets.")

Dorchester street, from East and West Broadway to East and West Eighth street, is about 1,720 feet in length. A contract for reconstructing the surface of this street was awarded to Samuel J. Tomasello May 9, 1921. Work was begun May 6, 1921, and completed September 1, 1921. This street is 80 feet in width. The roadway is 54 feet in width with a double track for surface cars in the centre and is paved in part with bitulithic on a 6-inch cement concrete base and in part with granite block, asphaltic mastic joints, using the best of the blocks found on the street and reshaping the existing concrete base with new material to the proper grade and crown. Granite blocks with grout joints on a 6-inch cement concrete base were used to pave the brows of the car track. The Boston Elevated Railway Company regulated and repaved the car track and dummy with granite blocks, grout joints, on a cement concrete base. The city furnished the new edgestone and circles on the

line of the work. The contractor furnished all the other materials, did the excavating, set the edgestone, cleaned and relaid the granite blocks and hauled the surplus materials to places designated by the commissioner. The granite block pavement and bitulithic pavement in the roadway and artificial stone sidewalks were laid under a five-year maintenance guaranty.

Whitten street, from Dorchester avenue across Althea street. (See "Assessment Streets.")

WOOD BLOCK PAVEMENT.

Charles street, from Beacon street to Cambridge street. (See "Assessment Streets.")

Congress street, Post Office square and Milk street, from State street across Federal street, is about 1,035 feet in length with a roadway 37 to 190 feet in width. A contract for paving this street with wood block pavement was awarded to Coleman Brothers, Inc., September 16, 1921. Work was commenced September 14, 1921, and completed November 22, 1921. The contractor barred out and hauled the old paving blocks to the Massachusetts avenue lot and excavated the roadway. The roadway was paved with wood blocks on a 6-inch Portland cement concrete base. The area between the car tracks was paved with special cut granite blocks with asphalt joints on a 6-inch Portland cement concrete base. At the Angell Memorial Drinking Fountain, the granite blocks were relaid with grout joints on the existing concrete base. The car tracks were set to line and grade by the Boston Elevated Railway Company and the area between the rails was paved with granite blocks with asphalt joints on a 6-inch Portland cement concrete base. The wood block and granite block paving was laid under a five-year maintenance guaranty. The former surface of the street was granite block with pitch joints and grout joints on a concrete base.

Washington street, from Beach street across Kneeland street, is about 290 feet in length. A contract to pave the surface of this street was awarded to James Doherty May 12, 1920. Work was begun October 11, 1920, suspended December 8, 1920, resumed April 19, 1921, and completed April 29, 1921. The contractor reset the edgestone, repaired the old concrete base and furnished and laid a wood block pavement on a mortar bed with sand joints. Granite block paving was relaid in the intersection at Kneeland street. A part of these blocks are recut, with gravel joints. Artificial stone sidewalks were furnished and laid. The sidewalks and pavement was laid under a five-year maintenance guaranty. The contractor furnished all the materials necessary to do the work except a small amount of edgestone furnished by the city.

ARTIFICIAL STONE SIDEWALKS.

Beacon street (south side), at the Hotel Buckminster, is about 189 feet in length. A contract to rebuild the artificial stone sidewalk in front of this hotel was awarded to Louis DeSisto September 19, 1921. Work was begun September 22, 1921, and completed September 29, 1921. The contractor broke out the old walk which was in bad condition, due to settlement and rebuilt the artificial stone walk under a five-year maintenance guaranty. The contractor furnished all materials necessary to do the work.

Blue Hill avenue (west side), from 217 feet south of Goodale road to Wellington Hill street, is about 833 feet in length. A contract for constructing an artificial stone sidewalk on this street was awarded to Metzger and Tratten July 1, 1921. Work was begun July 26, 1921, and completed August 19, 1921. The sidewalk is 15 feet in width with a 10-foot artificial stone walk and a loam space. The contractor furnished all the materials for this work, graded the loam space and relaid the underdrain at the back of the sidewalk. The artificial stone was laid under a five-year maintenance guaranty.

Cowper street, from Moore street about 300 feet easterly. A contract for constructing artificial stone sidewalks on this street was awarded to the Holbrook Construction Company June 24, 1921. Work was begun June 27, 1921, and completed July 20, 1921. It is a 50-foot street with a 34-foot macadam roadway, 8-foot artificial stone sidewalk and granite edgestone. The granite edgestone, circles and corners were furnished by the city on the line of the work. All other materials were furnished by the contractor. The artificial stone sidewalks were laid under a five-year maintenance guaranty.

Euclid street, from Washington street to Withington street, is about 431 feet in length. A contract for constructing artificial stone sidewalks on this street was awarded to Metzger and Tratten July 1, 1921. Work was begun July 6, 1921, and completed July 25, 1921. It is a 40-foot street with a macadam roadway, 7-foot artificial stone sidewalks, granite edgestone and 3-foot granite block gutters. The granite edgestone, circles and corners were furnished by the city on the line of the work. The gutter blocks were furnished by the city and hauled by the contractor. All other materials were furnished by the contractor. The artificial stone sidewalks were laid under a five-year maintenance guaranty.

Fairbanks street, from Washington street to Faneuil street, is about 1,174 feet in length. A contract to construct the sidewalks on this street was awarded to the John McCourt Company, June 24, 1921. Work was started June 20, 1921, and completed July 15, 1921. This street is 40 feet in width with 7-foot sidewalks. The contractor set the edgestone and

furnished and laid the artificial stone sidewalks under a five-year maintenance guaranty. The city furnished the new edgestone and all other materials were furnished by the contractor.

Hemenway street (easterly side), from Batavia street to Gainsborough street, is about 191 feet in length. A contract to rebuild the artificial stone on this street was awarded to Louis DeSisto September 19, 1921. Work was started October 3, 1921, and completed October 10, 1921. The contractor reset the edgestone and repaved the granite block gutter, broke out the old walk, furnished considerable cinder foundation and furnished and laid the artificial stone sidewalk under a five-year maintenance guaranty. All the materials necessary to do the work were furnished by the contractor.

Hemenway street (westerly side), from Museum square about 230 feet northerly. A contract to construct an artificial stone sidewalk on this street was awarded to Louis DeSisto September 19, 1921. Work was started October 7, 1921, and completed October 13, 1921. The contractor removed the old brick sidewalk and hauled the brick to the Massachusetts avenue lot. The edgestone was reset, granite block gutters relaid, a cinder foundation furnished and the artificial stone sidewalk furnished and laid. The contractor furnished all the materials necessary to do the work.

La Grange street (north side), from Centre street to Landseer street, is about 1,005 feet in length. A contract for constructing artificial stone sidewalks was awarded to Joseph Todesca November 26, 1920. Work was begun November 15, 1920, suspended December 9, 1920, resumed April 12, 1921, and completed April 27, 1921. Granite edgestone was set, 2-foot granite block gutters laid the entire length, artificial stone sidewalks 10 feet wide laid from Centre street to Sturgis road, and 6 feet wide with loam space 4 feet wide and tree pits from Sturgis road to Landseer street. The artificial stone sidewalk was laid under a five-year maintenance guaranty. The edgestone was furnished by the city on the line of work and granite blocks were furnished by the city and hauled by the contractor. All other materials were furnished by the contractor.

Moore street, from Bennington street to Cowper street, is about 728 feet in length. A contract for constructing artificial stone sidewalks on this street was awarded to Holbrook Construction Company June 24, 1921. Work was begun June 20, 1921, and completed July 28, 1921. It is a 50-foot street with a 34-foot macadam roadway, 8-foot artificial stone sidewalks and granite edgestone. At the southerly end of the street, a fence about 60 feet in length was built and the slope toward the harbor paved with large stone to protect it from tidal wash. The granite edgestone, circles and corners were furnished on the line of work by the city. The stone for slope

paving was found on the street. All other materials were furnished by the contractor and the surplus paving blocks were hauled to the city yard by the contractor. The artificial stone sidewalks were laid under a five-year maintenance guaranty.

Orchard street, from Centre street to Pond street, is about 1,570 feet in length. A contract for constructing artificial stone sidewalks on this street was awarded to the Andrews Construction Company June 22, 1921. Work was begun June 22, 1921, and completed August 9, 1921. The edgestone was reset, granite block gutters relaid, gravel base and joints and artificial stone sidewalks constructed. The sidewalk on the south side of Pond street, from Dunster road to about 150 feet west of Orchard street, was also constructed. The artificial stone sidewalk was laid under a five-year maintenance guaranty. Small corners were furnished by the city on the line of work. All other materials were furnished by the contractor.

Peterborough street (south side), in front of No. 40 and No. 42, is about 91 feet in length. A contract to reconstruct the sidewalks in front of these properties was awarded to Louis DeSisto September 19, 1921. Work was started September 29, 1921, and completed October 1, 1921. The contractor broke out the old artificial stone sidewalk and furnished the new cinder foundation necessary and furnished and laid the new walk under a five-year maintenance guaranty. The contractor furnished all materials necessary to do the work.

South street, from Archdale road to Washington street, is about 2,040 feet in length. A contract for constructing artificial stone sidewalks was awarded Charles Struzziery September 22, 1921. Work was begun September 22, 1921, and completed November 26, 1921. Edgestone was set and artificial stone sidewalks constructed where none existed. The sidewalks vary from 6 to 7 feet in width. The artificial stone sidewalks were laid under a five-year maintenance guaranty. The straight edgestone was furnished by the city and hauled by the contractor. Circular edgestone and corners were, furnished by the city on the line of work. All other materials were furnished by the contractor.

Wachusett street, from Walk Hill street to Weld Hill street, is about 1,404 feet in length. A contract for constructing the artificial stone sidewalks on this street was awarded to Metzger and Tratten July 1, 1921. Work was begun August 15, 1921, and completed October 29, 1921. It is a 35-foot street with a macadam roadway, 6-foot artificial stone sidewalks, granite edgestone and 3-foot granite block gutters. The granite edgestone, circles and corners were furnished by the city on the line of work. The gutter blocks were furnished by the city and hauled by the contractor. All other materials were furnished by the contractor. The artificial stone sidewalks were laid under a five-year maintenance guaranty.

ASSESSMENT STREETS.

Albany street, from Broadway to about 75 feet north of Troy street, is about 821 feet in length. A contract for paving this street with granite blocks with grout joints on a concrete base was awarded to James Doherty, September 29, 1920. Work was commenced September 15, 1920, suspended December 17, 1920, resumed March 21, 1921, and completed May 9, 1921. This street is 80 feet in width with a roadway 54 feet in width and sidewalk 13 feet in width. The contractor furnished the filling and did the excavating. The edgestone was reset to line and grade and the roadway was paved with granite blocks with grout joints on a 6-inch Portland cement concrete base. Owing to the fact that the roadway was widened about 20 feet, the contractor furnished about 2,000 square yards of new granite blocks which were laid between Broadway and Seneca street, and Oneida street and Genesee street. The straight edgestone, circles, corners and sidewalk brick were furnished by the city on the line of the work. Second-hand sidewalk brick were furnished by the city at the Massachusetts avenue lot and hauled by the contractor. All other materials were furnished by the contractor. In connection with this contract, Lehigh street was paved with second-hand granite blocks with grout joints on a gravel base. Broadway, from Albany street to Lehigh Street Bridge, was paved with second-hand granite block with grout joints on existing concrete base. Seneca street, from Albany street about 135 feet westerly, the brick blocks were taken up and relaid, and Troy street, from Albany street about 176 feet westerly, was paved with second hand granite blocks with grout joints on a gravel base. The granite block paving was laid under a five-year maintenance guaranty. The former surface of the street was granite block with pitch joints on a concrete base.

Allenwood street, from Anawan avenue to Pelton street, is about 507 feet in length with a roadway 26 feet in width and sidewalks 7 feet in width. A contract for constructing this street with asphalt concrete was awarded to John T. Shea, Jr., November 8, 1921. The contractor did the excavating and set the edgestone. Owing to the nature of this soil, the contractor was directed to excavate below subgrade and replace the excavated materials with crushed stone. On the crushed stone foundation a 4-inch Portland cement concrete base was laid. On account of weather conditions the asphalt concrete was not laid. Work was commenced October 28, 1921, and suspended December 24, 1921. The straight edgestone, circles and corners were furnished by the city on the line of the work. All other materials were furnished by the contractor. Work will be resumed in the spring of 1922. The former surface of this street was gravel.

Arborway, from Forest Hills street to Morton street, is

about 626 feet in length. A contract for constructing this street was awarded to the Rowe Contracting Company November 25, 1921. Work was begun in Arborway November 15, 1921, and suspended December 30, 1921. The work this year has consisted of removing trees and stone walks.

Arbutus street, from Blue Hill avenue to Irma street, is about 727 feet in length. A contract for constructing the surface of this street was awarded to Martino DeMatteo October 11, 1920. Work was begun November 24, 1920, suspended December 20, 1920, resumed March 14, 1921, and completed May 19, 1921. It is a 40-foot street with a 26-foot Topeka roadway on a 4-inch cement concrete base, 7-foot artificial stone sidewalks and granite edgestone. The granite edgestone, circles and corners were furnished by the city on the line of the work. All other materials were furnished by the contractor, who hauled the surplus paving materials to the city yard. The Topeka roadway and artificial stone sidewalks were laid under a five-year maintenance guaranty.

Archdale road, from Washington street to South street, is about 446 feet in length. A contract for constructing this street was awarded to Martino DeMatteo July 16, 1920. Work was begun April 11, 1921, and completed May 27, 1921. It is a 40-foot street with granite edgestone, artificial stone sidewalks 7 feet in width and 2-inch Topeka pavement laid on a 4-inch concrete base. Tree spaces were left in the sidewalk. The intersection of South street was laid with Topeka pavement on a macadam foundation. The Topeka pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty. The edgestone was furnished by the city on the line of the work. All the other materials were furnished by the contractor.

Babcock street, from Commonwealth avenue to the Boston & Albany Railroad, is about 953 feet in length. A contract to construct this street was awarded to the Rowe Contracting Company May 27, 1920. Work was begun September 15, 1920, suspended December 23, 1920, resumed March 7, 1921, and completed May 6, 1921. This is a 60-foot street with 10-foot artificial stone sidewalks and a 40-foot roadway. The street was subgraded, new edgestone was set, and the roadway was paved with a Topeka pavement on a 4-inch Portland cement concrete base. The artificial stone sidewalks and Topeka pavement were laid under a five-year maintenance guaranty. The contractor built a wooden fence across the end of the street on the line of the railroad property. The city furnished the granite paving blocks for paving the brows to the car track and the new edgestone. All other materials were furnished by the contractor.

Beech street, from West Roxbury Parkway to Belgrade avenue, is about 158 feet in length. A contract for constructing this street was awarded Rowe Contracting Company July 6,

1920. Work was begun August 30, 1920, suspended December 24, 1920, resumed April 4, 1921, and completed May 4, 1921. It is a 60-foot street with granite edgestone, 2-inch Topeka pavement laid on a 6-inch concrete base, and artificial stone sidewalks 10 feet in width. Edgestone was also set and crushed stone sidewalks surfaced to Anawan avenue and Topeka pavement laid on macadam foundation to Belgrade street. The artificial stone sidewalks and Topeka pavement were laid under a five-year maintenance guaranty. The edgestone was furnished by the city on the line of the work. All the other materials were furnished by the contractor.

Belgrade avenue, from Anawan avenue to Centre street, is about 1,303 feet in length. The contract for constructing this street was awarded Rowe Contracting Company July 6, 1920. Work was begun July 6, 1920, suspended December 24, 1920, resumed April 11, 1921, and completed April 27, 1921. It is a 70-foot street from Anawan avenue across Beech street and a 60-foot street from Beech street to Centre street. It has granite edgestone, 2-inch Topeka pavement, laid on a 6-inch concrete base on each side of the car tracks, 9-inch granite block brows to street car rails laid on a 6-inch concrete base with grout joints and artificial stone sidewalks 10 feet in width. From 100 feet east of Belgrade street across Anawan avenue edgestone was reset, gutters relaid with gravel joints, brows to car rails laid on gravel base with grout joints and Topeka pavement laid on macadam foundation each side of car tracks. The Topeka pavement and artificial stone sidewalk was laid under a five-year maintenance guaranty. The edgestone was furnished by the city on the line of the work. All the other materials were furnished by the contractor. The street car tracks and space between were paved with recut granite block on a 6-inch concrete base with grout joints by the Boston Elevated Railway Company and paid for by the city under agreement. With the exception of a part of the recut blocks, the Boston Elevated Railway Company furnished the materials.

Brenton street, from Glenway street to Greenwood street, is about 317 feet in length. A contract for constructing the surface of the street was awarded to Warren Brothers Company June 8, 1921. Work was begun June 13, 1921, and completed July 13, 1921. It is a 40-foot street with a 26-foot bitulithic roadway on a 4-inch cement concrete base, 7-foot artificial stone sidewalks and granite edgestone. The granite edgestone, circles and corners were furnished by the city on the line of the work. All other materials were furnished by the contractor. The bitulithic roadway and artificial stone sidewalks were laid under a five-year maintenance guaranty.

Centre street, from Allandale street to South street, is about 6,502 feet in length. A contract to resurface this street was awarded to the Bermudez Company September 17, 1920. Most of the work of construction was completed last year, a small area being laid this year, completing the work.

Centre street, from South street to Spring street, is about

6,331 feet in length. The contract for constructing this street was awarded the Rowe Contracting Company, July 6, 1920. Work was begun July 6, 1920, suspended December 24, 1920, resumed March 14, 1921, and completed August 31, 1921. It is an 80-foot street with granite edgestone, 2-inch Topeka pavement laid on a 6-inch concrete base each side of car track, 9-inch granite block brows to street car rails, laid on 6-inch concrete base with grout joints, and artificial stone sidewalks 10 feet in width. The Topeka and artificial stone sidewalks were laid under a five-year maintenance guaranty. The edgestone was furnished by the city on the line of the work. All the other materials were furnished by the contractor. The street car tracks and space between were paved with recut granite blocks on a 6-inch concrete base with grout joints by the Boston Elevated Railway Company and paid for by the city under agreement. The Boston Elevated Railway Company furnished the materials.

Charles street, from Beacon street to Cambridge street, is about 1,839 feet in length. A contract for constructing this street was awarded to B. E. Grant Company, August 2, 1921. The roadway is 46 feet in width with sidewalks 9 to 11 feet in width. Work was commenced July 26, 1921, and completed November 22, 1921. The contractor barred out and hauled the old paving block to the Massachusetts avenue lot, excavated the roadway and moved the old foundation walls on the line of widening. The edgestone was set to new line and grade and the roadway was paved with wood block on a cement mortar bed on a 6-inch Portland cement concrete base. The area between the car tracks was paved with special cut granite block with asphalt joints on a 6-inch Portland cement concrete base. The sidewalks were constructed of artificial stone. The straight edgestone, circles and corners and special cut granite blocks were furnished by the city and delivered on the line of work. All other materials were furnished by the contractor. The car tracks were set to line and grade by the Boston Elevated Railway Company and the area between the rails was paved with granite block with asphalt joints on a 6-inch concrete base. The wood block, granite block and artificial stone sidewalks were laid under a five-year maintenance guaranty. The former surface of this street was granite block on a concrete base with brick sidewalk.

Chestnut Hill avenue, from Beacon street to Commonwealth avenue, is about 795 feet in length. A contract to construct this street was awarded to John J. Lane, June 13, 1921. Work was started June 7, 1921, and completed October 14, 1921. Under this contract the street was widened to 80 feet in width with 10-foot sidewalks. The street was subgraded, involving considerable rock cutting on the widening as much as 17 feet in places. The wall on the west side street line was taken down and a new wall was built on the new line. New edgestone was set and the old edgestone was reset. Artificial stone sidewalks were furnished and laid, the car tracks

were relaid in the centre of new roadway and the tracks, brows and dummy were paved with recut granite block on a concrete base with grout joints. The roadway on the east side of the tracks was paved with asphalt concrete on the old macadam for a foundation and on the west side of the tracks where the widening was asphalt concrete was laid on a 6-inch Portland cement concrete base. The sidewalks and roadway were laid under a five-year maintenance guaranty. The city furnished the new edgestone required on the line of the work, also the flagging for coping on the wall, and all other materials necessary to do the work were furnished by the contractor, who also sloped the high ground back of the wall and covered the slope with loam.

Chilton road, from Weld Hill street to 411 feet northwesterly, is about 405 feet in length with a roadway 26 feet in width and sidewalks 7 feet in width. A contract for constructing this street with asphalt concrete was awarded to John T. Shea, Jr., November 8, 1921. The contractor did the excavating, set the edgestone. The roadway was paved with asphalt concrete on a 4-inch Portland cement concrete base. Work was commenced October 26, 1921, and suspended November 26, 1921. The straight edgestone, circles and corners were furnished by the city on the line of the work. All other materials were furnished by the contractor. The asphalt concrete was laid under a five-year maintenance guaranty. Work will be resumed in the spring of 1922. The former surface of this street was gravel.

Clarendon street, from Stuart street to Boston & Albany Railroad Bridge, is about 438 feet in length, with a roadway 54 feet and sidewalks 13 feet in width. A contract for constructing this street was awarded to Gore, Inc., May 24, 1921. The contractor did the excavating, furnished the filling and set the edgestone. The roadway was paved with special cut granite block with grout joints on a 6-inch Portland cement concrete base. The sidewalks were constructed of artificial stone. A dry rubble wall about 13 feet in length was built at the railroad bridge and a wooden fence on east side from Stanhope street to the railroad bridge. Work was commenced May 19, 1921, and completed August 18, 1921. The straight edgestone, circles and corners were furnished by the city on the line of the work. All other materials were furnished by the contractor. The former surface of this street was not graded. The sidewalks and roadway were laid under a five-year maintenance guaranty.

Cummington street, from Commonwealth avenue to Boston & Albany Railroad, is about 268 feet in length. A contract to construct this street was awarded to the Rowe Contracting Company, May 27, 1920. Work was begun August 19, 1920, suspended September 15, 1920, resumed March 11, 1921, and completed May 6, 1921. This street as constructed varies in width from 40 to 45 feet with 7-foot

artificial stone sidewalks and a roadway 31 feet wide. The street was subgraded, new edgestone was set, the roadway was paved with topeka pavement on a 6-inch Portland cement concrete base and artificial stone sidewalks were furnished and laid. The Topeka pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty. The contractor built a wooden fence across the end of the street on the line of the railroad location. The city furnished the new edgestone on the line or work and the granite paving blocks at the Massachusetts avenue lot. All other materials necessary were furnished by the contractor.

Cushman road, from Dustin street to Glencoe street, is about 945 feet in length. A contract to construct this street was awarded to John J. Lane, September 7, 1920. Work was begun October 28, 1920, suspended December 6, 1920, resumed March 21, 1921, and completed May 2, 1921. The street as constructed is 40 feet wide with 7-foot sidewalks and a 26-foot roadway. The contractor did the subgrading, set the edgestone, furnished and laid the artificial stone sidewalks on a cinder foundation and paved the roadway with sheet asphalt on a 4-inch concrete base. The artificial stone sidewalk and roadway paving was laid under a five-year maintenance guaranty. The city furnished the new edgestone on the line or work and all other materials necessary to do the work were furnished by the contractor.

Fargo street, from B street to C street, is about 533 feet in length. A contract to repave the surface of this street was awarded to the B. E. Grant Company, November 15, 1920. Work was begun December 2, 1920, suspended December 15, 1920, resumed March 14, 1921, and completed May 7, 1921. The work done was to bar out the old granite block, recut them and relay them on a 6-inch concrete base with grout joints, reset the edgestone and lay brick sidewalks. The recut block were laid under a five-year maintenance guaranty. The paving in the intersection of C street and for a considerable distance on each side on C street was relaid by the contractor. The city furnished the new circles and the sidewalk brick. All other materials necessary to complete the work were furnished by the contractor.

Halifax street, from South Huntington avenue to Pond View avenue, is about 970 feet in length. A contract for constructing the surface of this street was awarded to Martino DeMatteo, April 29, 1921. Work was begun May 16, 1921, and completed July 6, 1921. It is a 40-foot street with a 26-foot asphaltic concrete roadway on a 4-inch cement concrete base, 7-foot artificial stone sidewalks and granite edgestone. The granite edgestone, circles and corners were furnished by the city on the line of the work. All other materials were furnished by the contractor. The asphaltic roadway and artificial stone sidewalks were laid under a five-year maintenance guaranty.

Hastings street, from Centre street to Corey street, is about 394 feet in length. A contract for constructing this street was awarded to Martino DeMatteo December 6, 1921. Work was not started.

Hyde Park avenue, from Metropolitan avenue to River street, is about 5,454 feet in length. A contract for constructing this street was awarded Martino DeMatteo November 6, 1919. Work was begun November 10, 1919, suspended January 8, 1920, resumed March 29, 1920, suspended December 20, 1920, resumed March 14, 1921, and completed May 12, 1921. It is a 70-foot street with granite edgestone, 10-foot artificial stone sidewalks, 2-inch Topeka pavement on a 6-inch concrete base each side of car tracks, with granite block brows on 6-inch concrete base with grout joints at rails. The work this year consisted of laying the Topeka pavement on west side from West street across Metropolitan avenue and on the east side from River street to beyond Thatcher street, and laying the 6-inch concrete base and Topeka pavement on east side from Thatcher street across Metropolitan avenue, thus completing the roadway begun last year. The Topeka pavement and artificial stone sidewalks were laid under a five-year maintenance guaranty. The corners and recut block were furnished by the city and hauled by the contractor. The straight edgestone and circular edgestone was furnished by the city on the line of the work. All other materials were furnished by the contractor. The street car tracks were relocated and a double car track constructed by the Eastern Massachusetts Street Railway Company, the city making the necessary excavation under agreement with Gore, Inc.

A contract for paving the street car location was awarded to John McCourt Company October 8, 1920. Work was begun October 11, 1920, and completed November 19, 1920. This pavement is recut granite block on a 6-inch concrete base with grout joints. The old granite blocks were furnished by the city and recut by the contractor, who furnished all other materials.

Imrie road, from Cambridge street to Allston Playground, is about 620 feet in length. A contract to construct this street was awarded to Charles M. Callahan, June 3, 1921. Work started June 14, 1921, and was completed August 2, 1921. This street as constructed varies in width from 26.18 to 28 feet with 5-foot sidewalks. The street was subgraded and new edgestone was set, artificial stone sidewalks furnished and laid and the roadway was paved with asphalt concrete on a 4-inch Portland cement concrete base. The sidewalks and pavement were laid under a five-year maintenance guaranty. The city furnished the new edgestone on the line of work and the contractor furnished all other materials necessary to do the work.

Melton road, from Wallingford road to Colonial road, is about 455 feet in length. A contract to construct this street

was awarded to Charles M. Callahan, June 3, 1921. Work started July 6, 1921, and was completed September 15, 1921. This street as constructed is 50 feet in width with a 29-foot roadway and sidewalks 10.5 feet wide, consisting of 5 feet of artificial stone, a tree or loam space and curb stone. The street was sub-graded, edgestone set, artificial stone sidewalks furnished and laid and the roadway was paved with asphalt concrete on a 4-inch concrete base. The sidewalks and roadway were laid under a five-year maintenance guaranty. The contractor graded and seeded the loam spaces. The city furnished the new edgestone on the line of the work and all other materials necessary to do the work was furnished by the contractor.

Morton street, from Forest Hills avenue, 1220 feet easterly. A contract for constructing this street was awarded Rowe Contracting Company, November 25, 1921. Work was not started.

North Beacon street, from Market street to beyond Parsons street, is about 2,823 feet in length. A contract to widen and construct this street was awarded to the John Kelley Company, October 5, 1921. Work was started October 3, 1921, and suspended December 20, 1921. This street as it is to be constructed for the most of its length is 60 feet in width with 10-foot sidewalks, but under the railroad bridge the street narrows down to 28.5 feet in width with 3-foot sidewalks. The car tracks have been removed from the street. The contractor is subgrading the street, the cut being quite heavy on the north side of the street where the widening is, being 7 feet in places. New edgestone is being set and the old reset, artificial, stone sidewalks furnished and laid and the roadway is being paved with asphalt concrete on a 6-inch concrete base except the narrow portion under the bridge which is to be paved with granite block on a concrete base with asphalt joints. The sidewalks and paving are laid under a five-year maintenance guaranty. There is a short piece of dry rubble wall to be laid near the railroad bridge and a small amount of loam space is to be graded and seeded near the Charles River Parkway. The city furnished the new edgestone and paving block and all other materials are furnished by the contractor, who hauls all unused material to the Chestnut Hill Yard. The contract for constructing this street was awarded late in the Fall and the work will be completed in the spring.

Oriole street, from Bellevue road to Emmons road, is about 426 feet in length. A contract for constructing the surface of this street was awarded to Martino DeMatteo, April 29, 1921. Work was begun June 8, 1921, and completed July 8, 1921. It is a 40-foot street with a 26-foot asphaltic concrete roadway on a 4-inch cement concrete base, 7-foot sidewalks having a 4½-foot artificial stone walk with a loam space and granite edgestone. The granite edgestone, circles and corners were furnished by the city on the line of the work. The paving blocks

were furnished by the city and hauled by the contractor. All other materials were furnished by the contractor. The asphaltic roadway and artificial stone sidewalks were laid under a five-year maintenance guaranty.

Pontiac street, from Tremont street to Hillside street, is about 936 feet in length. A contract to pave the surface of this street with asphalt concrete, was awarded to the John McCourt Company, May 24, 1921. Work was started May 19, 1921, and completed June 28, 1921. This is a 40-foot street with 7-foot sidewalks. The street was subgraded involving considerable rock cutting, new edgestone was set, artificial stone sidewalks were furnished and laid and the roadway was paved with asphalt concrete on a 4-inch Portland cement concrete base. The sidewalks and roadway were laid under a five-year maintenance guaranty. The city furnished the new straight edgestone and circular edgestone on the line of the work, and all other materials were furnished by the contractor. All surplus and unused materials were hauled by the contractor to the Highland Street Paving Yard.

Public Alley No. 909, from Massachusetts avenue to Hemenway street, is about 379 feet in length. A contract for constructing the surface of this alley was awarded to DeStefano Bros., November 2, 1920. Work was begun March 24, 1921, and completed May 7, 1921. It is a 10-foot alley having an 8-foot roadway paved with 4-inch granite block, grout joints on a 6-inch cement concrete base, artificial stone sidewalks 1 foot in width and granite edgestone. A concrete retaining wall about 170 feet in length was built on the southerly side of this alley. The new granite edgestone, circles and corners were furnished by the city on the line of the work. The paving block were furnished by the city and hauled by the contractor, who also hauled the surplus paving materials to the city yard. All other materials were furnished by the contractor. The granite block roadway and artificial stone sidewalks were laid under a five-year maintenance guaranty.

South street, from Centre street about 270 feet easterly. A contract to construct this street with sheet asphalt was awarded to the Bermudez Company, September, 7, 1920. Work was begun September 20, 1920, suspended December 29, 1920, resumed April 11, 1921, and completed May 5, 1921. The work done this year consisted of laying artificial stone sidewalks.

Stanhope street, from Morgan street to Trinity place, is about 654 feet in length, with a roadway 20 feet in width and sidewalks 5 feet in width. A contract for constructing this street was awarded to Gore, Inc., May 24, 1921. The contractor did the excavating, furnished the filling and set the edgestone. The roadway was paved with special cut granite block with grout joints on a 6-inch Portland cement concrete base. The square at Morgan street was paved with second-hand granite block on a gravel base. The sidewalks were constructed of artificial stone. Work was commenced May 24, 1921, and completed August 18, 1921. The straight edge-

stone, circles and corners were furnished by the city on the line of the work. All other materials were furnished by the contractor. The granite block paving and artificial stone sidewalks were laid under a five-year maintenance guaranty. The former surface of the street was granite block with gravel base and the joints and brick sidewalks.

Stuart street, from Dartmouth street to Trinity place, is about 268 feet in length and from the west side of Clarendon street to Columbus avenue is about 1,229 feet in length. A contract to reconstruct this street was awarded to DeStephano Brothers, November 21, 1921. Work was started November 16, 1921, and suspended December 30, 1921. This street is to be 70 feet wide with 15-foot sidewalks and a 40-foot road, way. The contractor is to reset the edgestone, remove the old paving block, subgrade the street and make a fill where the roadway and slopes of the sidewalk are low. Artificial stone sidewalks are to be furnished and laid and the roadway is to be paved with asphalt concrete on a 6-inch concrete base. The sidewalks and roadway are to be laid under a five-year maintenance guaranty. The city will furnish any new edgestone and granite paving blocks required on the line of work, all other materials are to be furnished by the contractor, who is to haul the old paving blocks and flagging and other unused materials to the Massachusetts avenue lot.

Thorndike street, from Commonwealth avenue to the Brookline line, is about 144 feet in length. A contract to construct this street was awarded to Charles M. Callahan, June 3, 1921. Work was begun June 3, 1921, and completed June 22, 1921. This street as constructed, is 50 feet wide with a 34-foot roadway and 8-foot sidewalks. The sidewalk on the north side of the street consists of 5 feet of artificial stone and a loam space and the walk on the south side is full width artificial stone. New edgestone was set, artificial stone sidewalks were furnished and laid and the roadway was paved with asphalt concrete on a 4-inch concrete base. The sidewalks and roadway were laid under a five-year maintenance guaranty. The city furnished the new edgestone on the line of work and all other materials were furnished by the contractor.

Whitten street, from Dorchester avenue across Althea street, is about 1,017 feet in length. A contract for constructing the surface of this street was awarded to Warren Brothers Company June 8, 1921. Work was started June 24, 1921, and completed August 10, 1921. It is a 40-foot street with a 26-foot bitulithic roadway on a 4-inch cement concrete base, 7-foot sidewalks having a 4-foot artificial stone walk, a 3-foot loam space and part granite and part artificial stone curb. The granite edgestone, circles and corners were furnished by the city on the line of the work. A few paving blocks were hauled from Brenton street by the contractor. All other materials were furnished by the contractor. The bitulithic roadway and artificial stone sidewalks were laid under a five-year maintenance guaranty.

Work Done by Contract, 1921.

	Old.	New.	Total, Old and New.
Edgestone set.....	73,639 linear feet.	37,486 linear feet.	111,125 linear feet.
Crushed stone foundation for edgestone.....	.....	5,079 " "	5,079 " "
Concrete base laid.....	17,410 square yards.	150,436 square yards.	167,846 square yards. ¹
Granite block paving laid on gravel base with gravel joints.....	4,279 " "	1,015 " " 2	5,294 " "
New granite block paving laid with asphalt joints.....	.....	15,361 " " 3	15,361 " "
New granite block paving laid with grout joints.....	.....	4,248 " " 4	4,248 " "
Recut granite block paving laid with grout joints.....	.....	42,128 " " 5	42,128 " "
Second-hand granite block paving laid with asphalt joints.....	.....	1,119 " " 6	1,119 " "
Second-hand granite block paving laid with grout joints.....	.....	47,605 " " 7	47,605 " "
Sheet asphalt and binder laid.....	.....	2,743 " " 8	2,743 " "
Bitulithic pavement laid.....	.....	4,066 " " 10	10,574 " "
Asphalt concrete pavement laid.....	6,508 square yards.	90,864 " " 9	90,864 " "
Topeka pavement laid.....	.....	68,707 " " 12	68,707 " "
Simasco pavement laid.....	.....	20,632 " " 11	20,632 " "
Wood block pavement laid.....	236 square yards.	13,539 " " 13	13,775 " "
Brick block pavement laid.....	263 " "	.....	263 " "
Bituminous patching, full depth.....	20,842 " " 14	.....	20,842 " "
Bituminous surface patching.....	6,876 " " 16	.....	6,876 " "
Bituminous surface patching, extra binder.....	50 cubic yards.	.....	50 cubic yards.

Artificial stone sidewalks laid	3,277 square yards.	93,772 square yards.	97,049 square yards. ¹⁶
Brick sidewalks laid	2,967 " "	1,137 " "	4,104 " "
Gravel sidewalks laid	403 " "	.....	403 " "
Earth excavation . . . . .	.....	30,134 cubic yards	30,134 cubic yards.
Rock excavation . . . . .	.....	1,912 " "	1,912 " "
Filling furnished . . . . .	.....	4,273 " "	4,273 " "
Crushed stone furnished . . . . .	.....	3,940 tons.	3,940 tons.
Loam furnished . . . . .	.....	1,235 cubic yards.	1,235 cubic yards.
Loam graded and seeded . . . . .	.....	1,162 square yards.	1,162 square yards.
Old concrete base removed . . . . .	.....	38,913 " "	38,913 " "
Covers, catch-basin frames and bradley-heads set . . . . .	.....	921	921
Concrete backing for edgestone . . . . .	.....	301 linear feet.	391 linear feet.
Concrete walls built . . . . .	.....	43 cubic yards.	43 cubic yards.
Rubble masonry walls built . . . . .	.....	990 " "	990 " "
Wood fence built . . . . .	.....	972 linear feet.	972 linear feet.
Gravel shoulders placed . . . . .	.....	105 square yards.	105 square yards.
Bridle path graded . . . . .	.....	427 " "	427 " "
Slope paving . . . . .	.....	76 " "	76 " "
Artificial stone curb built . . . . .	.....	96 linear feet.	96 linear feet.
Walls and foundation removed . . . . .	.....	534 cubic yards.	534 cubic yards.
Dry wells built . . . . .	.....	2	2

Explanations of Numerals on Preceding Pages.

1 Concrete base laid four (4) inches deep. Concrete base laid six (6) inches deep. Total concrete base laid	21,650 square yards. 145,896 "	167,846 square yards.
2 Second-hand granite blocks, formerly gravel roadway. Second-hand granite blocks, formerly cobble gutters. Total granite block paving laid on gravel base with gravel joints (new)	253 square yards. 762 "	1,015 square yards.
3 Formerly macadam roadway. Formerly granite blocks, grout joints. Formerly granite blocks, pitch joints. Total new granite block paving laid with asphalt joints.	13,126 square yards. 1,746 " " 489 "	15,361 square yards.
4 Formerly gravel roadway. Formerly macadam roadway. Formerly granite blocks, gravel joints. Formerly granite blocks, pitch joints. Total new granite block paving laid with grout joints.	1,707 square yards. 867 " " 1,196 " " 478 "	4,248 square yards.
5 Formerly gravel roadway. Formerly granite blocks, gravel joints. Total reut granite block paving laid with grout joints (new)	414 square yards. 41,714 "	42,128 square yards.
6 Formerly granite blocks, pitch joints. Total second-hand granite blocks laid with asphalt joints (new)	1,119 square yards.	1,119 square yards.
7 Formerly gravel roadway. Formerly bituminous macadam. Formerly granite blocks, gravel joints. Formerly granite blocks, pitch joints. Total second-hand granite blocks laid with grout joints (new)	74 square yards. 3,948 " " 10,672 " " 32,911 "	47,905 square yards.
8 Formerly gravel roadway. Formerly macadam roadway. Total asphalt pavement laid (new)	2,107 square yards. 636 "	2,743 square yards.

11 Formerly gravel roadway.....	15,197 square yards.	90,864 square yards.
Formerly concrete roadway.....	140 " "	
Formerly macadam roadway.....	35,658 " "	
Formerly bituminous macadam roadway.....	35,768 " "	
Formerly granite block, gravel joints.....	4,101 " "	
Total asphalt concrete pavement laid (new).....		
12 Formerly gravel roadway.....	4,066 square yards.	4,066 square yards.
Total bitulithic pavement laid (new).....		
13 Formerly macadam roadway.....	20,632 square yards.	20,632 square yards.
Total Sinasco pavement laid (new).....		
14 Formerly gravel roadway.....	2,040 square yards.	68,797 square yards.
Formerly macadam roadway.....	59,408 " "	
Formerly bituminous macadam roadway.....	7,349 " "	
Total topeka pavement laid (new).....		
15 Formerly gravel roadway.....	1,172 square yards.	13,539 square yards.
Formerly macadam roadway.....	600 " "	
Formerly granite blocks, gravel joints.....	2,080 " "	
Formerly granite blocks, grout joints.....	4,239 " "	
Formerly granite blocks, pitch joints.....	5,448 " "	
Total wood block pavement laid (new).....		
16 Replacing topeka.....	109 square yards.	20,842 square yards.
Replacing bitulithic.....	2,663 " "	
Replacing Roman road.....	625 " "	
Replacing macadam.....	2,098 " "	
Replacing asphalt.....	15,347 " "	
Total bituminous patching (full depth).....		
17 Replacing bitulithic.....	5,854 square yards.	6,876 square yards.
Replacing Roman road.....	632 " "	
Replacing asphalt.....	390 " "	
Total bituminous surface patching.....		
18 Laid with foundation.....	45,884 square yards.	97,049 square yards.
Laid on existing foundation.....	51,165 " "	
Total artificial stone sidewalks laid.....		

Work Done by Paving Service Forces During 1921.

	Old.	New.	Total. Old and New.
Edgestone set.....	42,644 linear feet.	3,243 linear feet.	45,887 linear feet.
Concrete base laid.....	.....	659 square yards.	659 square yards.
Roadway, granite block, gravel joints.....	.....	193 " "	66,343 " "
Roadway, granite block, pitch and pebble.....	314 " "	.....	314 " "
Roadway, granite block, grout joints.....	25,486 " "	4,062 " "	29,548 " "
Gutter, granite block, gravel joints.....	20,823 " "	471 " "	21,294 " "
Gutter, granite block, grout joints.....	590 " "	.....	590 " "
Flagging crosswalk, gravel joints.....	3,528 " "	.....	3,528 " "
Roadway, wood block, sand joints.....	6,103 " "	.....	6,103 " "
Topeka pavement.....	.....	18,909 " "	18,909 " "
Water-bound macadam surface placed.....	25,992 " "	.....	25,992 " "
Tar penetration macadam surface placed.....	112,398 " "	1,785 " "	114,183 " "
Asphalt penetration macadam surface placed.....	115,931 " "	1,111 " "	117,042 " "
Macadam surface patched.....	347,275 " "	.....	347,275 " "
Asphalt blanket coat.....	44,201 " "	.....	44,201 " "
Tar blanket coat.....	295,033 " "	.....	295,033 " "
Brick sidewalks laid.....	84,842 " "	2,790 " "	87,632 " "
Artificial stone sidewalks laid.....	5,840 " "	579 " "	6,419 " "
Sidewalk excavating.....	.....	.....	.....
Roadway excavating.....	.....	.....	.....
Gravel or crushed stone sidewalks surfaced.....	181,722 " "	.....	181,722 " "
Grading (no pavement laid).....	.....	.....	.....
Rock excavating.....	.....	.....	.....
Brick block pavement laid.....	4,814 " "	659 " "	5,473 " "
Concrete roadway laid.....	.....	836 " "	836 " "

FINANCIAL STATEMENT, PAVING SERVICE.

Maintenance.

Appropriation	\$1,278,474 40
Transferred from Street Cleaning and Oiling Service	5,824 15
Transferred from Lighting Service	5,596 65
	<hr/>
	\$1,289,895 20
Transferred to street improvements	711 40
	<hr/>
	\$1,289,183 80
Expended during the year	1,287,913 15
	<hr/>
Balance transferred to City Treasury	<u>\$1,270 65</u>

Special Appropriations.

Granolithic sidewalks:	
Appropriation from taxes	\$50,000 00
Expended during the year	49,999 82
	<hr/>
Balance January 31, 1922	<u>\$0 18</u>

Reconstructing and Repairing Streets by Contract.

Balance February 1, 1921	\$181,749 86
Appropriation from taxes	750,000 00
	<hr/>
	\$931,749 86
Expended during the year	880,464 34
	<hr/>
Balance January 31, 1922	<u>\$51,285 52</u>

Street Improvements.

Appropriation from taxes	\$290,000 00
Transferred from Paving Service	711 40
	<hr/>
Expended during the year	<u>\$290,711 40</u>

Washington Street, West Roxbury.

Appropriation from taxes	\$100,000 00
Expended during the year	63,877 87
	<hr/>
Balance January 31, 1922	<u>\$36,122 13</u>

Summary of Expenditures.

Paving Service	\$1,287,913 15
Highways, making of	761,550 39
Granolithic sidewalks	49,999 82
Reconstructing and repairing streets by contract	880,464 34
Street improvements	290,711 40
Washington street, West Roxbury	63,877 87
North Beacon street, Brighton	24,301 50
Stuart street	1,361 53
Total	<u>\$3,360,180 00</u>

INCOME.

Statement showing the amount of bills and cash deposited with the City Collector from February 1, 1921, to January 31, 1922, and credited to General Revenue.

Edgestone and sidewalk assessments	\$41,204 84
Permits	22,648 64
Services of inspectors	3,789 25
Labor, material furnished, etc.	10,134 70
Total	<u>\$77,777 43</u>

Amount paid into the City Treasury during the year:

Edgestone and sidewalk assessments	\$26,739 30
Permits	22,688 73
Services of inspectors	3,933 00
Labor, material furnished, etc.	12,734 04
Total	<u>\$66,095 07</u>

Objects of Expenditures from the Various Appropriations, Classified by Districts, from February 1, 1921, to January 31, 1922.

Districts.	Macadam Repairs.	Paved Street Repairs.	Removal of Snow.	Street Cleaning.	Edgestone and Sidewalk Repairs.	Street Work.	Schedule A, Miscellaneous.	Totals.
South Boston and Dorechester North.....	\$14,937 01	\$5,226 47	\$8,725 16	\$5,633 46	\$13,738 34	\$98,393 03	.....	\$146,673 47
East Boston and Breed's Island.....	7,444 17	2,130 39	6,629 99	1,107 91	9,806 35	130,153 09	.....	157,271 90
Charlestown.....	5,032 73	11,010 35	6,972 80	1,893 31	7,269 65	18,643 54	.....	50,822 38
Brighton.....	21,870 65	1,297 17	5,001 05	16,631 62	2,573 70	242,561 63	.....	293,585 82
West Roxbury.....	31,609 16	171 68	10,182 96	21,779 85	5,510 58	568,142 57	.....	637,396 80
Dorechester.....	25,698 64	1,383 65	10,947 41	14,501 39	8,188 69	223,820 74	.....	284,540 52
Roxbury South and Jamaica Plain.....	26,233 02	2,052 29	23,295 29	43,566 07	18,606 21	311,492 10	.....	425,244 98
South End and Roxbury North.....	18,316 11	8,308 01	21,843 28	7,483 29	28,141 93	218,991 98	.....	303,084 60
Ashmont.....	30,632 59	.....	5,774 05	6,049 89	4,297 87	23,820 41	.....	70,574 81
North and West Ends and Back Bay.....	6,603 44	17,348 97	75,718 70	2,820 73	14,850 33	240,153 07	.....	337,495 24
Hyde Park.....	14,982 15	101 70	2,002 39	7,338 16	4,931 39	104,471 40	.....	133,827 19
Miscellaneous.....	.....	.....	.....	.....	.....	* 73,671 77	\$425,990 52	499,662 29
Totals.....	\$206,350 67	\$49,030 68	\$177,693 08	\$128,875 68	\$117,915 04	\$2,254,315 33	\$425,990 52	\$3,360,180 00

* \$8,799.32 new artificial stone sidewalks and repairs; \$64,872.45 asphalt and bitulithic road repairs.

SCHEDULE A.

Salary of division engineer (part of)		\$3,750 00
Salary of engineer in charge (part of)		750 00
Salaries of office clerks and stenographers		5,858 33
Salaries of assistant engineers (office work)		10,020 45
Salaries of permit office clerks		9,571 21
Salaries of permit office inspectors		14,316 36
Salaries of engineering inspectors (office work)		6,967 06
Salaries of engineering inspectors, tallying traffic,		3,156 64
Salaries of district inspectors		3,157 62
Salary of street numbering clerk		1,564 68
Salary of medical inspector (part of)		333 32
Medical attendance on injured employees (out- side)		423 15
Salary of chief veterinarian (part of)		308 33
Salary of veterinarian (part of)		283 34
Salary of inspector of horses		1,396 20
Salary of constable and inspector		1,994 20
Pensions paid to veterans of Civil War (retired)		6,974 39
Pensions paid to laborers (retired)		25,362 77
Compensation allowed injured employees		5,009 98
Vacations allowed laborers, mechanics, etc.		34,833 64
Holidays, not including holidays charged to street accounts		74,063 13
Automobile expense, division engineer		2,076 34
Gasolene, oil, grease, etc.	\$298 59	
Repairs	207 70	
New tires and tubes	81 12	
Repairing tires and tubes	37 05	
Supplies	37 88	
Miscellaneous	10 00	
Wages of chauffeur	1,404 00	
Automobile expense, engineer in charge		2,495 10
Gasolene, oil, grease, etc.	\$327 74	
Repairs	513 35	
New tires and tubes	204 90	
Repairing tires and tubes	23 25	
Supplies	11 86	
Miscellaneous	10 00	
Wages of chauffeur	1,404 00	
Automobile expense, chief engineer		2,218 61
Gasolene, oil, grease etc.	\$282 39	
Repairs	143 51	
New tires and tubes	182 79	
Supplies	15 92	
Miscellaneous	10 00	
Storage	180 00	
Wages of chauffeur	1,404 00	
<i>Carried forward</i>		\$216,884 85

<i>Brought forward</i>	\$216,884 85	
Automobile expenses, foreman Brighton district	2,199 84	
Gasolene, oil, grease, etc	\$327 52	
Repairs	173 69	
New tires and tubes	208 52	
Repairing tires and tubes	37 05	
Supplies	19 93	
Miscellaneous	10 00	
Wages of chauffeur	1,423 13	
Automobile expense, foreman West Roxbury district		309 57
Gasolene, oil, grease, etc.	\$108 06	
Repairs	119 35	
New tires and tubes	56 20	
Repairing tires and tubes	2 25	
Supplies	13 71	
Miscellaneous	10 00	
Automobile expense, foreman Dorchester district,		446 77
Gasolene, oil, grease, etc.	\$185 45	
Repairs	123 44	
New tires and tubes	60 10	
Repairing tires and tubes	12 50	
Supplies	53 53	
Miscellaneous	11 75	
Automobile expense, foreman Roxbury district		835 33
Gasolene, oil, grease, etc. (bill not received)	\$0 25	
Repairs	537 86	
New tires and tubes	145 99	
Repairing tires and tubes	13 25	
Supplies	123 53	
Miscellaneous	14 45	
Automobile expense, emergency car		601 13
Gasolene, oil, grease, etc.	\$284 43	
Repairs	242 35	
New tires and tubes	64 35	
Miscellaneous	10 00	
Automobile expense, truck, South End district		280 69
Gasolene, oil, grease, etc.	\$58 87	
Repairs	60 25	
New tires and tubes	135 65	
Repairing tires and tubes	3 00	
Supplies	20 92	
Miscellaneous	2 00	
Postage		343 14
Printing		5,706 44
Stationery		1,128 06
Traveling expenses, car fares, etc.		1,093 61
<i>Carried forward</i>	\$229,829 43	

<i>Brought forward</i>		\$229,829 43
Engineering supplies and incidentals		2,610 46
Stationery	\$818 90	
Printing	453 05	
Postage	157 38	
Transit repairs	86 01	
Miscellaneous	566 62	
Adding machine	318 50	
Wye level	210 00	
Supplies for laboratory		636 39
Artificial stone sidewalks, new and repairs by department force (see reconstructing and repairing streets by contract and street improvements)		10,144 24
Asphalt and bitulithic pavement repairs. Temporary repairs, labor, teaming and materials (see, also, reconstructing and repairing, streets by contract and street improvements),		512 09
Brick block repairs, labor, teaming and materials,		4,242 23
Wood block repairs, labor, teaming and materials,		7,792 04
Crosswalks repaired, not included elsewhere,		6,330 77
Fence repairs		8,020 26
Plankwalk repairs		2,602 86
Edgestone sidewalk and gutters (new), not included elsewhere		10,185 66
Rent of land, wharves, etc.		3,933 00
Horses		2,430 00
Expense of stables, including drivers, feeders, fodder, horse-shoeing, repairs to harnesses, wagons, carts, etc.	\$177,239 28	
Amount earned by department teams	166,913 50	
		10,325 78
Electric lighting at yards and stables		1,228 23
Gas lighting at yards and stables		222 90
Fuel for heating yards, buildings, offices and stables		4,255 58
Electrical appliances, labor and materials, yards and stables		54 67
Rent of towels		152 05
Stoves, pipes, grates, etc.		322 06
Telephone service		1,695 44
Derricks, repairing, etc.		202 46
Ice		95 52
Signs, making and putting up		15,954 96
Tools, hardware, etc., new, cost of repairing, etc.,		25,939 43
Oil for lighting around defects, etc.		1,856 10
<i>Carried forward</i>		\$351,574 61

<i>Brought forward</i>		\$351,574 61
Expense of yards, including salaries of foremen, clerks, yardmen, watchmen, tool wagons, etc.,		43,287 96
Repairs of yard buildings, stables, sheds, shanties, etc,		8,168 71
Sanding icy and slippery streets		5,580 09
Repairing culverts and building new culverts		43 79
Hoisting engine, fuel and supplies		15 56
Uniforms, boots, shoes, etc.		5 70
Chests for Central Office, making of		71 90
Premium on surety bonds		9 00
Marking catch-basins		110 25
Repairs to and inspection of typewriters		70 50
Express and freight charges		25 60
Trimming and removing trees		134 00
Public celebrations		129 00
Painting traffic lines		2,874 26
Labor, etc., distributing wood in Charlestown, Atlases		4,338 24
		112 50
Portion of cost of blueprinting machine		300 00
Miscellaneous		477 75
Steam rollers, cost of operating, re- pairs, etc.	\$34,253 18	
Steam rollers, amount earned	28,431 00	
		<hr/> 5,822 18
Work done and materials furnished individuals, corporations, etc.		2,300 18
Street Cleaning and Oiling Service, work done and materials furnished		651 74
Sewer Service, work done and materials furnished,		1,541 20
Water Service, work done and materials furnished,		381 01
Bridge Service, work done and materials fur- nished		1,670 92
High Pressure Fire Service, work done and ma- terials furnished		146 25
Park Department		670 00
Asphalt plant, Dorchester, removing and setting up		13 315 95
Asphalt plant, West Roxbury		10 05
Asphalt plant, Brighton, operating cost	\$30,368 06	
Less materials used on streets	29,605 27	
		<hr/> 762 79
Total		<hr/> \$444,601 89
Less amount earned by tractors	\$413 66	
Less amount earned by contract mixer	6 57	
		<hr/>
<i>Carried forward</i>	\$420 23	\$444,601 89

Brought forward		\$420 23	\$444,601 89
Stock materials	\$117,330 50		
Stock handling	38,910 08		
	<hr/>		
	\$156,240 58		
Less stock delivered			
on streets	174,431 72		
	<hr/>	18,191 14	
		<hr/>	18,611 37
Total			<hr/> <hr/> \$425,990 52

SPECIAL APPROPRIATIONS.

North Beacon street, Market street to beyond Parsons street. Length, 2,823 linear feet. Area, 12,235 square yards. Edgestone set; asphalt concrete pavement laid; artificial stone sidewalks constructed. (Unfinished.)

Engineering	\$2,071 13	
Inspection	668 49	
Engineering expense	39 05	
Advertising	7 75	
Photographs	28 00	
Templets.	31 36	
Edgestone, 3,998 feet straight, 196 feet 8 inches circular, 34 large, 2 small corners and 4 special stones	6,641 68	
Steam roller	198 00	
Granite paving blocks, 28,700 large @ \$115 per M.	3,234 49	
Manhole regulated	64 46	
Amount paid to John Kelly Company, under contract:		
Removing trees, bushes, etc.	\$400 00	
4,800 cubic yards earth excavation @ 65c.	3,120 00	
31.5 cubic yards rock excavation at \$5	157 50	
3,809 linear feet straight edgestone set @ 20c.	761 80	
456 linear feet circular edgestone set @ 20c.	91 20	
625 linear feet existing edgestone reset @ 20c.	125 00	
2,720 square yards concrete base and asphalt concrete surface layer furnished and laid @ \$2.35	6,392 00	
235 square feet artificial stone foundation furnished and placed @ 2c.	4 70	
14,300 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 15c.	2,145 00	
	<hr/>	
Carried forward	\$13,197 20	\$12,987 41

<i>Brought forward</i>	\$13,197 20	\$12,987 41
730 square feet artificial stone driveways, con- crete base and wearing surface furnished and laid @ 15c.	109 50	
1 cover reset @ \$3	3 00	
2 courses of brickwork laid @ 50c.	1 00	

	\$13,310 70	
Less 15 per cent retained,	1,996 61	

11,314 09	
<u>\$24,301 50</u>	

Stuart street.

Engineering	\$853 78	
Inspection	329 29	
Engineering expense	5 55	
Advertising	8 10	
Edgestone, 56 feet 7 inches circular and 2 small corners	164 81	
	<u>\$1,361 53</u>	

Washington street, from 69 feet south of Corinth street to Denton terrace.
Length, 2,160 linear feet. Area, 11,762 square yards. Edgestone
set and reset; granite block paving laid; concrete base and grout
joints and artificial stone sidewalks constructed.

Engineering	\$1,291 93	
Inspection	734 86	
Engineering expense	12 75	
Advertising	7 20	
Edgestone, 1,652 feet straight, 59 feet circular, 28 small corners and 9 specials	2,712 92	
Blocks, 210,413 large granite	23,713 56	
Tractor	8 75	
Labor, removing trees	275 12	
Lumber	5 84	
Teaming	90 95	
Labor	320 68	

\$29,174 56

Credit: Bricks	15 40	
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\$29,159 16.

Amount paid to Gore, Inc., under contract:

Removing trees, bushes, etc.	\$25 00	
3½ cubic yards rock excava- tion @ \$10	35 00	
1,562 linear feet straight edge- stone set @ 23c.	359 26	
190 linear feet circular edge- stone set @ 19c.	36 10	
2,222 linear feet existing edge- stone reset @ 19c.	422 18	
1,396 linear feet crushed stone and concrete foundation furnished and placed @ 20c.	279 20	

<i>Carried forward</i>	\$1,156 74	\$29,159 15
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<i>Brought forward</i>	\$1,156 74	\$29,159 16
58 square yards existing granite block paving relaid, gravel joints, @ 65c.	37 70	
7,229 square yards granite block paving laid, concrete base, sand bed, asphalt joints, @ \$2.45	17,711 05	
2,239 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 17c.	380 63	
254 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 21c.	53 34	
19 covers reset @ \$3	57 00	
27 courses of brickwork laid @ 50c.	13 50	
	<u>\$19,409 96</u>	
Less 15 per cent retained,	2,911 49	
		16,498 47
Amount paid to Boston Elevated Railway Company:		
4,999 square yards paving barred out, blocks recut @ \$1.13	\$5,648 87	
4,533 square yards concrete base and paving laid @ \$2.79,	12,647 07	
		<u>18,295 94</u>
		<u>63,953 57</u>

GRANOLITHIC SIDEWALK CONSTRUCTION.

<i>Beacon street</i> (south side), at Brookline avenue. (Hotel Buckminster.)		
Length, 189 linear feet. Area, 2,706 square feet. Edgestone reset gutters repaved and artificial stone sidewalks constructed.		
Engineering		\$3 00
Advertising		2 15
Amount paid to Louis De Sisto & Co., under contract:		
902 square feet artificial stone foundation furnished and placed @ 2½c.	\$22 55	
2,706 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid @ 16c.,	432 96	
		<u>455 51</u>
		<u>460 66</u>
<i>Blue Hill avenue</i> (west side), from 217 feet south of Goodale road to Wellington Hill street. Length, 950 linear feet. Area, 8,811 square feet. Artificial stone sidewalks constructed.		
Engineering		\$107 87
Inspection		117 62
Engineering expense		50
Advertising		2 60
		<u>\$228 59</u>
<i>Carried forward</i>		

<i>Brought forward</i>	\$228 51
Amount paid to Metzger and Tratten, under contract:	
23 cubic yards rock excavation @ \$3.60	\$82 80
8,290 square feet artificial stone foundation furnished and placed @ 4 $\frac{3}{4}$ c.	393 78
8,811 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 19c.	1,674 09
Extra Work — Take up, clean and relay the existing under drain where directed:	
634 hours, labor @ 50c.	317 00
64 hours, foreman, @ 90c.	57 60
Plus 15 per cent on \$374.60,	56 19
46 hours, double team, @ \$1	46 00
5 cubic yards cinders @ 90c.,	4 50
	<hr/>
	2,631 96
	<hr/>
	<u>\$2,860 55</u>

Brooks street, from Hobart street to Faneuil street. (Work done in 1920.)

Engineering expense	\$0 30
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Bynner street, from Creighton street to Day street. Length, 320 feet.

Area, 3,376 square feet. Reset 123 feet straight edgestone, set 4 small corners and repaved 63 square yards gutter and constructed artificial stone sidewalks.

Labor, edgestone excavating	\$29 00
Labor, edgestone resetting	38 25
Labor, gutters repaved	33 00
Labor, dirt sidewalk excavating	212 50
Labor, artificial stone sidewalk laying	413 75
Teaming	170 00
Gravel, 28 $\frac{1}{2}$ cubic yards	41 44
Crushed stone, 19.55 tons	36 98
Cement, 432 bags	285 79
Lampblack, 42 pounds	11 76
Edgestone corners, 2 small	8 00
	<hr/>
	<u>\$1,280 47</u>

Corey street, from Centre street to Weld street. (Work not started.)

Engineering	\$226 03
Engineering expense	4 60
	<hr/>
	<u>\$230 63</u>

Cowper street, from Moore street about 300 feet easterly. Length, 300 linear feet. Area, 4,822 square feet. Edgestone set and artificial stone sidewalks constructed.

Engineering	\$84 04
Inspection	55 36
Engineering expense	30
Advertising	6 70
Edgestone, 518 feet straight, 8 small corners	1,034 43

Carried forward \$1,180 83

<i>Brought forward</i>		\$1,180 83
Amount paid to Holbrook Construction Com- pany, under contract:		
588 linear feet straight edge- stone set @ 19c.	\$111 72	
26 linear feet circular edge- stone set @ 30c.	7 80	
23 linear feet existing edge- stone reset @ 19c.	4 37	
6 square yards existing gran- ite block paving relaid, gravel joints, @ 75c.	4 50	
4,522 square feet artificial stone foundation furnished and placed @ 4c.	180 88	
4,522 square feet artificial stone sidewalks, concrete base and wearing surface, fur- nished and laid, @ 17c.	768 74	
301 square feet artificial stone driveways, concrete base and wearing surface, fur- nished and laid, @ 25c..	75 25	
	<hr/>	1,153 26
		<hr/> <u>\$2,334 09</u>

Euclid street, from Washington street to Withington street. Length, 431 linear feet. Area, 5,020 square feet. Edgestone set, granite block gutters laid and artificial stone sidewalks constructed.

Engineering	\$58 38
Inspection	61 36
Engineering expense	3 65
Advertising	2 60
Edgestone, 520 feet straight and 10 small corners	1,063 23
Blocks, 7,200 old	216 00
Amount paid to Metzger & Tratten, under con- tract:	
520 linear feet straight edge- stone set @ 19c.	\$98 80
29 linear feet circular edge- stone set @ 19c.	5 51
164 linear feet existing edge- stone reset @ 19c.	31 16
168 square yards granite block pavement hauled and laid, sand bed, gravel joints, @ 58½c.	98 28
106 square yards existing gran- ite block paving relaid, sand bed, gravel joints, @ 55½c.	58 83
4,876 square feet artificial stone foundation furnished and placed @ 4¼c.	231 61
4,495 square feet artificial stone sidewalks, concrete base and wearing surface, fur- nished and laid, @ 19c..	854 05
	<hr/>
<i>Carried forward</i>	\$1,378 24
	<hr/> <u>\$1,405 22</u>

<i>Brought forward</i>	\$1,378 24	\$1,405 22
525 square feet artificial stone driveways, concrete base and wearing surface, fur- nished and laid, @ 28c. .	147 00	
2 covers reset @ \$3	6 00	
1 Bradley-head catch-basin reset @ \$5	5 00	
Extra work — Remove the existing edgestone and put in new driveway at No. 5 Euclid street:		
15 hours' labor @ 50c. . . .	7 50	
1 hour, stonecutter, @ 90c.,	90	
Plus 15 per cent on \$8.40,	1 26	
	<hr/>	1,545 90
		<hr/> <u>\$2,951 12</u>

Fairbanks street, from Washington street to Faneuil street. Length 1,174 linear feet. Area, 11,862 square feet. Edgestone set and artificial stone sidewalks constructed.

Engineering	\$95 20
Inspection	141 89
Engineering expense	60
Advertising	6 80
Edgestone, 1,563 feet straight, 19 feet circular and 38 small corners	3,306 78
Amount paid to John McCourt Company, under contract:	
1,562 linear feet straight edge- stone set @ 24c.	\$374 88
145 linear feet circular edge- stone set @ 24c.	34 80
6 linear feet existing edge- stone reset @ 24c.	1 44
572 square feet artificial stone foundation furnished and placed @ 2c.	11 44
10,691 square feet artificial stone sidewalks, concrete base and wearing sur- face, furnished and laid, @ 18c.	1,924 38
1,171 square feet artificial stone driveways, concrete base and wearing surface, fur- nished and laid, @ 18c.,	210 78
14 covers reset @ \$3	42 00
6 courses of brick work laid @ 50c.	3 00
Extra work — Remove tree stumps in side- walk not shown on plan and cut edgestone for additional drive- ways not shown on plan:	
12 hours' labor @ 40c. . . .	4 80
8 hours, stonecutter, @ \$1,	8 00
	<hr/>
<i>Carried forward</i>	\$2,615 52
	<hr/> <u>\$3,551 27</u>

Brought forward	\$2,615 52	\$3,551 27
Plus 15 per cent on		
\$12.80	1 92	
	<hr/>	2,617 44
		<hr/>
		\$6,168 71

Hemenway street (west side), from Museum square about 230 feet northerly.
Length, 275 linear feet. Area, 2,585 square feet. Edgestone reset,
gutters repaved and artificial stone sidewalks constructed.

Engineering		\$3 00
Advertising		2 15
Amount paid to Louis DeSisto & Co., under contract:		
250 linear feet existing edge-stone reset @ 25c.	\$62 50	
82 square yards existing granite block paving relaid, sand bed, gravel joints, @ 70c.	57 40	
646 square feet artificial stone foundation furnished and laid @ .02½c.	16 15	
2,585 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 16c.	413 60	
2 covers reset @ \$3	6 00	
1 course of brickwork laid @ 50c.	50	
	<hr/>	556 15
		<hr/>
		\$561 30
Credit: Bricks		42 00
		<hr/>
		\$519 30

Hemenway street (east side), from Batavia street to Gainsborough street.
Length, 191 linear feet. Area, 1,845 square feet. Edgestone reset,
gutters repaved and artificial stone sidewalks constructed.

Engineering		\$3 00
Advertising		2 15
Amount paid to Louis De Sisto & Co., under contract:		
207 linear feet existing edge-stone reset @ 25c.	\$51 75	
73 linear feet existing granite block pavement relaid, sand bed, gravel joints, @ 70c.	51 10	
615 square feet artificial stone foundation furnished and laid @ 2½c.	15 38	
1,845 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 16c.	295 20	
1 Bradley head catch-basin reset @ \$5	5 00	
2 courses of brickwork laid @ 50c.	1 00	
	<hr/>	419 43
		<hr/>
		\$424 58

Linden street, from Brighton avenue to Commonwealth avenue. Work done in 1920.

Engineering	<u>\$0 30</u>
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Maple street, from Oak street to Pine street. Work not started.

Engineering	\$151 03
Engineering expense	3 40
	<u>\$154 43</u>

Moore street, from Bennington street to Cowper street. Length, 728 linear feet. Area, 8,756 square feet. Edgestone set and artificial stone sidewalks constructed. Slope paving and fence at end of street.

Engineering	\$107 05
Inspection	115 57
Engineering expense	4 85
Advertising	6 70
Edgestone, 1,081 feet straight and 66 feet circular	2,218 74
	<u>\$2,452 91</u>
Credit: Bricks	7 00
	<u>\$2,445 91</u>

Amount paid to Holbrook Construction Company, under contract:

1,013 linear feet straight edge-stone set @ 19c.	\$192 47
67 linear feet circular edge-stone set @ 30c.	20 10
186 linear feet existing edge-stone reset @ 19c.	35 34
8,756 square feet artificial stone foundation furnished and placed @ 4c.	350 24
8,756 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 17c.	1,488 52
6 Bradley head catch-basins reset @ \$5	30 00
8 courses of brickwork laid @ 50c.	4 00
64 linear feet wood fence built @ \$1.20	76 80
76 square yards slope paving laid @ \$10	76 00
	<u>2,315 47</u>
	<u>\$4,761 38</u>

Oak street, from Hyde Park avenue to Maple street.

Engineering	\$148 00
Engineering expense	3 40
	<u>\$151 40</u>

Orchard street, from Centre street to Pond street. Length, 1,570 linear feet. Area, 20,635 square feet. Edgestone reset, gutters relaid and artificial stone sidewalks constructed.

Engineering	\$273 95
Inspection	222 42
	<u>\$496 37</u>

Carried forward

<i>Brought forward</i>	\$496 37
Engineering expense	5 10
Advertising	6 50
Edgestone, 12 small corners	95 76
	<hr/>
Credit: Bricks	\$603 73
	42 00
	<hr/>
	\$561 73

Amount paid to Andrews Construction Company, under contract:

Removing trees, bushes, etc.	\$25 00	
1½ cubic yards rock excavation @ \$5	7 50	
2,909 linear feet existing edgestone reset @ 20c.	581 80	
1,023 square yards existing granite block paving relaid, gravel joints, @ 40c.	409 20	
463 square feet artificial stone foundation furnished and placed @ 1c.	4 63	
19,436 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 19½c.,	3,790 02	
1,199 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 20c.	239 80	
1 cover reset @ \$3	3 00	
Extra work — Remove existing edgestone and construct additional driveways as directed:		
13½ hours, stonecutter, @ \$1	13 50	
38 hours' labor, @ 40c.	15 20	
Plus 15 per cent on \$28.70,	4 31	
7 hours, double team, @ \$1.50	10 50	
1½ hours, auto truck, @ \$4.38	6 57	
	<hr/>	
		5,111 03
		<hr/>
		\$5,672 76

Peterborough street (south side), at Nos. 40 and 42. Length, 91 linear feet. Area, 673 square feet. Edgestone reset, gutters repaved and artificial stone sidewalks constructed.

Engineering	\$1 00
Advertising	2 15
Amount paid to Louis DeSisto, under contract:	
224 square feet artificial stone foundation furnished and placed @ 2½c.	\$5 60
673 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 16c.	107 68
	<hr/>
	113 28
	<hr/>
	\$116 43

Pine street, from Hyde Park avenue to Maple street. (Work not started.)

Engineering expense	\$3 20
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Repairing artificial stone sidewalks. On Providence street and on Broadway.

Amount paid to John Landis.

1,990 square feet artificial stone sidewalks relaid	
@ 27c.	\$547 83
48 hours' labor @ 40c.	19 20
6 hours, edgestone setter, @ \$1	6 00
12 hours, foreman, @ \$1	12 00
4 covers reset @ \$3	12 00
	<hr/>
	\$597 03
Discount 2 per cent	11 94
	<hr/>

\$585 09

South street, from Archdale road to Washington street. Length, 2,040 linear feet. Area, 20,291 square feet. Edgestone set and reset, two dry wells constructed and artificial stone sidewalks constructed.

Engineering	\$190 74
Inspection	383 44
Engineering expense	3 95
Advertising	7 00
Edgestone, 2,714 feet straight, 38 small corners,	5,766 88
Amount paid to Charles Struzziery, under contract:	
Removing trees, bushes, etc.,	\$25 00
2,651 linear feet straight edgestone hauled and set @ 25c.	662 75
237 linear feet circular edgestone set @ 30c.	71 10
305 linear feet existing edgestone reset @ 20c.	61 00
581 linear feet crushed stone and concrete foundation furnished and placed @ 10c.	58 10
20,291 square feet artificial stone foundation furnished and placed @ 2c.	405 82
19,129 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 15c.	2,869 35
1,162 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 50c.	581 00
11 covers reset @ \$3	33 00
2 courses of brickwork laid @ 50c.	1 00
2 dry wells constructed @ \$10	20 00
Extra work — Excavate rock as directed:	
2½ cubic yards rock excavated @ \$6	15 00

<i>Carried forward</i>	\$4,803 12	\$6,352 01
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<i>Brought forward</i>	\$4,803 12	\$6,352 01
Extra work — Remove buried stumps and construct additional driveways as directed:		
3 $\frac{3}{8}$ days, edgestone setter, @ \$9	30 38	
5 $\frac{1}{8}$ days' labor @ \$4	20 50	
Plus 15 per cent on \$50.88,	7 63	
1 bag cement @ \$1	1 00	
2 tons crushed stone @ \$2	4 00	
21 nights' lighting @ 50c.	10 50	
2 gallons kerosene @ 20c.	40	
Extra work — Cut straight edgestone to set around curves:		
4 days, stone cutter, @ \$9	36 00	
Plus 15 per cent on \$36	5 40	
		4,918 93
		<u>\$11,270 94</u>

Sycamore street, from Ashland street to Florence street.

Execution of court paid to John A. Nelson for damages resulting from building artificial stone sidewalks in 1917.	\$200 00
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Wachusett street, from Weld Hill street to Walk Hill street. Length, 1,404 linear feet. Area, 11,041 square feet. Edgestone set, granite block gutters laid and artificial stone sidewalks constructed.

Engineering	\$325 57
Inspection	280 27
Engineering expense	3 40
Advertising	2 60
Labor, setting edgestone	2 50
Blocks, 30,405, old granite	912 15
Edgestone, 2,050 feet straight, 82 feet circular and 14 small corners	4,160 00
Teaming	22 50
	\$5,708 99
Credit: bricks	6 10
	<u>\$5,702 89</u>

Amount paid to Metzger and Tratten, under contract:

Removing trees, bushes, etc.	\$75 00
36 cubic yards rock excavation @ \$3.60	129 60
2,051 linear feet straight edgestone set @ 19c.	389 69
120 linear feet circular edgestone set @ 19c.	22 80
464 linear feet existing edgestone reset @ 19c.	88 16
1,219 linear feet crushed stone and concrete foundation furnished and placed @ 18 $\frac{1}{2}$ c.	225 51
<i>Carried forward</i>	\$930 76
	<u>\$5,702 89</u>

<i>Brought forward</i>	\$930 76	\$5,702 89
762 square yards granite block pavement hauled and laid, sand bed, gravel joints, @ 58½c.	445 77	
48 square yards existing granite block paving relaid, sand bed, gravel joints, @ 55½c.	26 64	
7 square yards existing brick sidewalks relaid @ 50c.,	3 50	
11,041 square feet artificial stone foundation furnished and placed @ 4¼c.	524 45	
10,628 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 19c.	2,019 32	
413 square feet artificial stone driveways, concrete base and wearing surface furnished and laid, @ 28c.	115 64	
Extra work — Reset the edgestone that has settled on account of the construction of new catch-basins:		
4 hours', edgestone setter @ 90c.	3 60	
12½ hours' labor @ 50c.	6 25	
Plus 15 per cent on \$9.85	1 48	
	<hr/>	4,077 41
		<hr/> <u>\$9,780 30</u>

RECONSTRUCTING AND REPAIRING STREETS BY CONTRACT.

<i>Adams street</i> , from King street to Minot street. (Work not started.)		
Engineering	\$10 00	
Engineering expense	80	
	<hr/>	<u>\$10 80</u>
<i>Amory street</i> , from Green street to 140 feet north of Atherton street. (Work done in 1919.)		
Engineering		\$14 00
		<u></u>
<i>Arlington street</i> , from Market street across Leicester street. Length, 475 feet. Area, 1,905 square yards. Edgestone set and reset. Simasco pavement laid on old macadam foundation and artificial stone sidewalks constructed.		
Engineering	\$57 50	
Engineering expense	40	
Amount paid to Simpson Brothers Corporation, under contract:		
307 linear feet straight edgestone set @ 35c.	\$107 45	
52 linear feet circular edgestone set @ 40c.	20 80	
	<hr/>	
<i>Carried forward</i>	\$128 25	\$57 90

<i>Brought forward</i>	\$128 25	\$57 90
119 linear feet existing edge-stone reset @ 30c.	35 70	
412 linear feet crushed stone and concrete foundation furnished and placed @ 35c.	144 20	
27 square yards existing granite block paving relaid, gravel joints, @ \$1	27 00	
3 square yards existing granite block paving relaid in driveways and edgings, gravel base, sand bed, grout joints, @ \$2	6 00	
1,875 square yards Simasco pavement furnished, laid, @ \$2.50	4,687 50	
6,363 square feet artificial stone foundation furnished and placed @ 6c.	381 78	
6,011 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 26c.	1,562 86	
352 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 33c.	116 16	
2 covers reset @ \$3	6 00	
2 courses of brick work laid @ 50c.	1 00	
	<hr/>	
	\$7,096 45	
Less amount paid in 1920	2,001 28	
	<hr/>	
	5,095 17	
	<hr/>	
		\$5,153 07
<i>Artificial stone sidewalks:</i>		
Rebates allowed	\$7,611 03	
Repairs	603 20	
	<hr/>	
		\$8,214 23
		<hr/>
<i>Asphalt and bitulithic pavements repaired.</i> Bituminous pavements upon which the maintenance has expired.		
Engineering	\$6,408 59	
Inspection	3,671 38	
Engineering expense	214 45	
Expert services on laboratory	62 50	
Advertising	13 50	
Amount paid to Bermudez Company, final payment on contract for work done in 1920	4,258 83	
Amount paid to Rowe Contracting Company, under contract:		
20,757.77 square yards bituminous wearing surface and binder furnished and laid (May 6, 1921, to January 20, 1922) @ \$2.10	\$43,591 32	
	<hr/>	
<i>Carried forward</i>	\$43,591 32	\$14,629 25

<i>Brought forward</i>	\$43,591 32	\$14,629 25
6,875.95 square yards bituminous pavement resurfaced @ \$1 . . .	6,875 95	
45.06 cubic yards extra bituminous binder furnished and laid @ \$14 . . .	630 84	
659.32 square yards concrete base furnished and laid @ \$2.25 . . .	1,483 47	
102 covers reset @ \$3 . . .	306 00	
	<hr/>	
	\$52,887 58	
Less 5 per cent retained	2,644 38	
	<hr/>	
	50,243 20	
		<hr/>
		\$64,872 45

Beacon street and Chestnut Hill avenue (Brookline line to Brookline line inclusive, Cleveland circle). Length, 1,506 linear feet. Area 11,833 square yards. Edgestone set, roadway on Beacon street paved with asphalt concrete pavement on macadam foundation and on Cleveland circle on 6-inch concrete base, the car tracks were paved with recut granite blocks, grout joints, the bridle path was regaveled and the loam spaces and circle loamed, graded and seeded.

Engineering	\$996 94	
Inspection	388 65	
Engineering expense	1 50	
Advertising	4 35	
Photographs	149 19	
Teaming	350 00	
Edgestone, 1,238½ feet straight, 1,119 feet circular and 14 small corners	5,383 21	
Blocks, 40,313 recut granite	2,418 78	
Amount paid to John J. Lane under contract:		
Removing trees, bushes, etc.	\$50 00	
1,770 cubic earth excavation @ \$1	1,770 00	
48 cubic yards rock excavation @ \$3.75	180 00	
198 cubic yards extra excavation @ \$1.50	297 00	
220 tons crushed stone furnished, placed, watered and rolled @ \$3	660 00	
1,390 linear feet straight edgestone set @ 19c.	264 10	
1,221 linear feet circular edgestone set @ 25c.	305 25	
272 linear feet existing edgestone reset @ 20c.	54 40	
13 square yards existing granite block paving relaid, sand bed, gravel joints @ 70c.	9 10	
551 square yards granite block paving recut and relaid in dummy and brows, concrete base, sand bed, grout joints @ \$3.80	2,093 80	
	<hr/>	
<i>Carried forward</i>	\$5,683 65	\$9,692 62

<i>Brought forward</i>	\$5,683 65	\$9,692 62
27 square yards existing granite block pavement relaid in edgings, concrete base, sand bed and grout joints, @ \$3.05	82 35	
112 square yards existing granite block paving relaid in edgings, gravel base, sand bed and grout joints @ \$2	224 00	
7,070 square yards concrete base and asphalt concrete surface layer furnished and laid @ \$3.10	21,917 00	
4,060 square yards asphalt concrete pavement surface layer furnished and laid, macadam foundation, @ \$1.80	7,308 00	
9,489 square feet artificial stone foundation furnished and placed @ 2c.	189 78	
9,489 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 17c.	1,613 13	
7 covers reset @ \$3	21 00	
9 courses of brickwork laid @ 50c.	4 50	
130 cubic yards loam hauled and placed @ 70c.	91 00	
667 square yards loam graded and seeded @ 20c.	133 40	
427 square yards bridle path graded and shaped @ 50c.	213 50	
Extra Work — Furnish a loam and manure mixture and grade same in circular area of Cleveland circle:		
1,011 cubic yards loam and manure mixture furnished and graded @ \$2	2,022 00	
Extra Work — Furnish stonecutter to cut gutter-mouths in catch-basin stones:		
7 days stonecutter @ \$8	56 00	
Plus 15 per cent on \$56	8 40	
	<hr/>	39,567 71
		<hr/> <u>\$49,260 33</u>

Beacon street, from Massachusetts avenue to Raleigh street. (Work done in 1920.)

Engineering	\$15 80
Engineering expense	56 13
Services of expert, analyzing, etc.	25 02
	<hr/>
	\$96 95

Belgrade avenue, from Belgrade street to South street. (Work not started.)

Engineering	\$435 80
Engineering expense	7 50
	<hr/>
	<u>\$443 30</u>

Berkeley street, from Columbus avenue to Providence street. (Work not started.)

Blocks	<u>\$15 00</u>
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Blackstone street, from Clinton street to Haymarket square. (Work done in 1920.)

Engineering	<u>\$67 61</u>
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Blue Hill avenue, from Talbot avenue to Morton street. (Work not started.)

Engineering	\$338 20
Engineering expense	7 20
	<u>\$345 40</u>

Boylston street, from Amory street to Centre street. (Work not started.)

Engineering	<u>\$20 00</u>
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Bremen street, from 230 feet northeast of Maverick street to Porter street. Length, 1,239 linear feet. Area, 4,059 square yards. Edgestone set, second-hand granite block pavement laid with grout joints on gravel base and artificial stone sidewalks constructed on the north side.

Engineering	\$347 66
Inspection	332 28
Engineering expense	5 40
Advertising	3 70
Expert services	9 90
Edgestone, 280 feet straight and 38 feet circular,	629 39
Blocks, 14,045 old granite	421 35

\$1,749 68

Credit: Bricks	18 60
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\$1,731 08

Amount paid to Coleman Brothers, Inc., under contract:

271 linear feet straight edge-stone set @ 30c.	\$81 30
61 linear feet circular edge-stone set @ 50c.	30 50
1,469 linear feet existing edge-stone reset @ 30c.	440 70
25 square yards existing granite block paving relaid, gravel joints, @ \$1	25 00
3,948 square yards granite block pavement hauled and laid, gravel base, sand bed and grout joints, @ \$1.70	6,711 60
111 square yards existing granite block pavement relaid, gravel base, sand bed and grout joints, @ \$1.50	166 50
44 square yards brick sidewalks hauled and laid @ \$1	44 00

<i>Carried forward</i>	\$7,499 60	<u>\$1,731 08</u>
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Brought forward	\$7,499 60	\$1,731 08
200 square yards existing brick sidewalks relaid @ 90c.	180 00	
7,149 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 22c.	1,572 78	
82 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 25c.	20 50	
14 covers reset @ \$3	42 00	
12 courses of brickwork laid @ 50c.	6 00	
	<hr/>	9,320 88
		<hr/> <u>\$11,051 96</u>

Burke street, from Tremont street to Columbus avenue.

Engineering	\$38 00	
Engineering expense	3 10	
	<hr/>	\$41 10
		<hr/> <u></u>

* *Centre street*, from Allendale street to South street. Length, 6,502 linear feet. Area, 17,084 square yards. Filling, edgestone reset, sheet asphalt pavement laid, retaining wall constructed and artificial stone sidewalks constructed.

Engineering	\$557 78	
Inspection	53 70	
Engineering expense	1 10	
Labor, removing trees	626 10	
Labor and materials, building drain	485 50	
Teaming	401 46	
Amount paid to the Bermudez Company, under contract:		
334.5 cubic yards earth excavation @ \$2.50	\$836 25	
3.6 cubic yards rock excavation @ \$10	36 00	
1,242 cubic yards gravel filling furnished @ \$2.50.	3,105 00	
115 cubic yards extra excavation @ \$3	345 00	
788 tons crushed stone furnished, placed, watered and rolled, @ \$4	3,152 00	
372 linear feet straight edge-stone set @ 45c.	167 40	
333 linear feet existing edge-stone reset @ 40c.	133 20	
161 square yards existing granite block paving taken up, hauled and relaid in hips, gravel joints, @ \$2	322 00	
3,205 square yards shoulders graded, shaped, watered and rolled, @ 45c.	1,442 25	
	<hr/>	
Carried forward	\$9,539 10	\$2,125 64

* See Highways, making of.

<i>Brought forward</i>	\$9,539 10	\$2,125 64
17,521 square yards bituminous concrete binder and asphalt wearing surface, furnished and laid on macadam foundation, @ \$2.89	50,635 69	
1,540 square feet artificial stone foundation furnished and placed @ 12c.	184 80	
1,540 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 35c.,	539 00	
25 covers reset @ \$3	75 00	
17 courses of brickwork laid @ 50c.	8 50	
Furnishing all materials and constructing wall and fence	7,700 00	
62.5 linear feet wood fence built @ \$2.25	140 63	
	<hr/>	
	\$68,822 72	
Less amount paid in 1920,	61,655 13	
	<hr/>	
	\$7,167 59	
Less amount charged to highways, making of	1,100 71	
	<hr/>	
	6,066 88	
	<hr/>	
	<u>\$8,192 52</u>	

Centre street, from Columbus avenue across Hyde square. Length, 3,270 feet. Asphalt concrete laid on macadam foundation and artificial stone sidewalks constructed.

Engineering	\$1,336 83
Inspection	1,054 26
Engineering expense	44 45
Expert services	9 90
Photographs	32 00
Edgestone, 2,000 feet straight, 192 feet circular, 10 small corners and 2 special stones	3,267 32
Blocks, 38,100 recut granite	2,286 00
	<hr/>
	\$8,430 76
Credit: Bricks	49 00
	<hr/>
	\$7,981 76

Amount paid to B. E. Grant Company, under contract:

58 cubic yards rock excavation @ \$5	\$290 00
980 tons crushed stone furnished, placed watered and rolled, @ \$3	2,940 00
1,946 linear feet straight edge-stone set @ 22c.	428 12
229 linear feet circular edge-stone set @ 22c.	50 38
	<hr/>
<i>Carried forward</i>	\$3,708 50
	<hr/>
	\$7,981 76

<i>Brought forward</i>	\$3,708 50	\$7,981 76
5,205 linear feet existing edge-stone reset @ 20c.	1,041 00	
105 linear feet crushed stone and concrete foundation furnished and placed @ 15c.	15 75	
36 square yards existing granite block paving relaid, gravel joints, @ \$1	36 00	
543 square yards existing granite block paving recut and relaid in brows of car tracks, concrete base, sand bed and grout joints, @ \$3	1,629 00	
9 square yards granite block paving recut and relaid in edgings and driveways, concrete base, sand bed and grout joints, @ \$3.	27 00	
4,542 square yards existing granite block paving recut and relaid, concrete base, sand bed and grout joints, @ \$3	13,626 00	
2,645 square yards concrete base and asphalt concrete surface layer furnished and laid, @ \$2.75	7,273 75	
7,864 square yards asphalt concrete pavement surface layer, furnished and laid on macadam foundation, @ \$1.50	11,796 00	
6,688 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid @ 17c.	1,136 96	
74 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 25c.	18 50	
26 covers reset @ \$3	78 00	
24 courses of brickwork laid @ 50c.	12 00	
	\$40,398 46	
Less 5 per cent retained	2,019 92	
	<u>*\$38,378 54</u>	
Less amount charged to Centre street, from Boylston street to Green street,	9,023 56	
	<u>29,354 98</u>	
Amount paid to Boston Elevated Railway Company:		
1,403.7 square yards of block paving in dummy barred out, blocks recut, concrete base made and paving laid, @ \$3.92	5,502 50	
	<u>42,839 24</u>	

* Includes measurements for Centre street, from Boylston street to Green street.

Centre street, from Forbes street to Boylston street. (Unfinished work from 1921.) Length, 1,386 linear feet. Area, 3,622 square yards. Edgestone set, Topeka pavement laid on macadam foundation, brick sidewalk laid on the east side and artificial stone sidewalk constructed on the west side.

Engineering	\$33 34	
Engineering expense	60	
Amount paid to Boston Elevated Railway Company:		
712.9 square yards of block paving in dummy barred out, blocks recut, concrete base laid and blocks laid. @ \$3.92.	2,794 57	
Amount paid to Central Construction Company, under contract:		
10 cubic yards rock excavation @ \$6	\$60 00	
40½ tons crushed stone furnished, placed, watered and rolled, @ \$3	121 50	
689 linear feet straight edge-stone set @ 32c.	220 48	
33 linear feet circular edge-stone set @ 35c.	11 55	
1,131 linear feet existing edge-stone reset @ 30c.	339 30	
265 linear feet crushed stone and concrete foundation furnished and placed @ 30c.	79 50	
52 square yards existing granite block paving relaid in driveways and edgings, gravel base, sand bed and grout joints, @ \$2	104 00	
10 square yards existing granite block paving relaid in brows of car tracks, gravel base, sand bed and grout joints, @ \$2.50	25 00	
3,560 square yards Topeka wearing surface furnished and laid on macadam foundation @ \$2.35	8,366 00	
871 square yards brick sidewalks relaid @ 70c.	609 70	
5,347 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 26c.	1,390 22	
260 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 35c.	91 00	
3 covers reset at \$3	9 00	
4 courses of brick work laid @ 50c.	2 00	
Extra work — Remove trees, and roots of trees, as directed:		
35 hours' labor @ 65c.	22 75	
Plus 15 per cent on \$22.75	3 41	
<i>Carried forward</i>	\$11,455 41	\$2,828 51

<i>Brought forward</i>	\$11,455 41	\$2,828 51	
Less amount paid in 1920, from Street Improve- ments	9,369 21		
	<hr/>	2,086 20	
		<hr/>	<u>\$4,914 71</u>

Centre street, from Boylston street to Green street. Length, 2,520 feet.
Roadway paved with asphaltic pavement and artificial stone sidewalks
constructed. For details, *see* Centre street, from Columbus avenue to
Hyde square. (Work unfinished.)

Engineering	\$627 50	
Engineering expense	5 90	
Advertising	8 00	
Amount paid by Boston Elevated Railway Company:		
1,317 square yards of block paving in dummy barred out, blocks recut, concrete base made and paving laid, @ \$3.92	5,162 64	
Amount paid to B. E. Grant Company, under contract	*9,023 56	
	<hr/>	<u>\$14,827 70</u>

Charles street, from Fruit street to Allen street. (Work done in 1920.)

Engineering	\$45 00	
Engineering expense	3 35	
	<hr/>	<u>\$48 35</u>

Chelsea street, from Maverick street to Day square. Length, 3,972 linear
feet. Area, 22,918 square yards. Reset edgestone, roadway between
Maverick street and Gove street was paved with asphalt concrete on
6-inch concrete base and the rest of the roadway with asphalt concrete
on macadam foundation. Artificial stone sidewalks were constructed.

Engineering	\$841 76	
Inspection	527 91	
Engineering expense	48 20	
Advertising	3 70	
Expert services	9 90	
Photographs	64 00	
Edgestone, 64 feet straight, 196 feet circular and 10 small corners	739 05	
Blocks, 5,140 old granite	154 20	
	<hr/>	2,388 72
Credit: Sidewalk bricks	424 20	
	<hr/>	\$1,964 52

Amount paid to Coleman Brothers, under con-
tract:

Removing trees, bushes, etc.	\$25 00	
150 tons crushed stone fur- nished, placed, watered and rolled @ \$3.50	525 00	
64 linear feet straight edge- stone set @ 30c.	19 20	

<i>Carried forward</i>	\$569 20	\$1,964 52
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* Details included in measurement for Centre street, from Columbus avenue to Hyde square.

<i>Brought forward</i>	\$569 20	\$1,964 52
225 linear feet circular edge-stone and corners set @ 50c.	112 50	
7,715 linear feet existing edge-stone reset @ 30c.	2,314 50	
221 square yards existing granite block paving relaid, gravel joints, @ \$1	221 00	
201 square yards existing granite block pavement relaid, gravel base, sand bed and grout joints, @ \$1.50	301 50	
3,571 square yards concrete base and asphalt concrete surface layer furnished and laid @ \$4.20	14,998 20	
19,146 square yards asphalt concrete pavement surface layer furnished and laid on macadam foundation @ \$2.50	47,865 00	
375 square yards existing brick sidewalks relaid @ 90c.,	337 50	
2,588 square feet artificial stone foundation furnished and placed @ 9c.	232 92	
69,641 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 22c.,	15,321 02	
32 covers reset @ \$3	96 00	
67 courses of brickwork laid @ 50c.	33 50	
13 Bradley head catch-basins reset @ \$5	65 00	
Extra work:— Remove one tree on Chelsea street, near Gove street, 1 tree removed	50 00	
	<hr/>	82,517 84
		<hr/> <u>84,482 3</u>

Columbia road, from Hancock street to Blue Hill avenue. (Work not started.)

Engineering	\$49 04	
Engineering expense	1 80	
	<hr/>	\$50 84

Columbus avenue, from Tremont street to Centre street. Length, 3,172 linear feet. Area, 17,868 square yards. Reset edgestone, granite blocks relaid with grout joints and concrete base and artificial stone sidewalks constructed.

Engineering	\$2,346 97
Inspection	1,257 31
Engineering expense	90 45
Advertising	6 60
Photographs	22 00
	<hr/>
<i>Carried forward</i>	\$3,723 33

Brought forward	\$3,723 33
Edgestone	178 73
Blocks, 57,374 old granite	1,721 22
	<hr/>
	\$5,623 28
Credit: Bricks, sidewalk	956 16
	<hr/>
	\$4,667 12

Amount paid to John Kelly Company, under contract:

590 square yards existing concrete base excavated and removed @ 35c.	\$206 50	
90 linear feet straight edge-stone set @ 20c.	18 00	
4,721 linear feet existing edge-stone reset @ 17c.	802 57	
1,822 cubic yards concrete base furnished and laid @ \$9,	16,398 00	
2,777 square yards granite block paving hauled and laid, sand bed, grout joints @ \$1.80	4,998 60	
16,771 square yards existing granite block paving relaid, sand bed, grout joints @ \$1.28	21,466 88	
680 square yards existing granite block paving relaid, gravel base, sand bed and grout joints @ \$1.25,	850 00	
52 square yards existing brick sidewalks relaid @ 50c.	26 00	
30,000 square feet artificial stone foundation furnished and placed (unfinished) @ 1½c.	350 00	
68,623 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 16½c.,	11,322 80	
532 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 25c.	133 00	
85 covers reset @ \$3	255 00	
1 Bradley head catch-basin reset @ \$5	5 00	
23 courses of brick work laid @ 50c.	11 50	
Section I, Article E, Overhaul:		
853 tons granite paving blocks hauled from Massachusetts avenue lot (instead of from Highland Street Yard), two (2) miles overhaul @ 15c. per ton per half mile	511 80	
	<hr/>	
Carried forward	\$37,355 65	\$4,667 12

<i>Brought forward</i>	\$57,355 65	\$4,667,12
Extra Work — Cut the edgestone to fit new telephone cover near the railroad bridge:		
8 hours, stone-cutter @ \$1,	8 00	
Plus 15 per cent on \$8 . . .	1 20	
Extra Work — Cover the top of old fire reservoir with flagging and bar and ram trenches where directed:		
23 hours' labor @ 40c.	9 20	
4 hours, paver, @ \$1	4 00	
Plus 15 per cent on \$13.20,	1 98	
2 bags cement @ \$1	2 00	
	<hr/>	57,382 03
		<hr/> <u>\$62,049 15</u>

Columbus avenue, from Centre street to Walnut avenue. Length, 4,020 linear feet. Area, 16,934 square yards. Reset edgestone, asphalt concrete pavement laid on macadam foundation and artificial stone sidewalks constructed.

Engineering	\$967 66	
Inspection	717 22	
Engineering expense	18 05	
Advertising	7 70	
Templets	15 00	
Expert services	9 90	
Edgestone	217 02	
	<hr/>	\$1,952 55
Credit: Bricks, sidewalks	\$932 65	
Blocks, old granite	104 00	
	<hr/>	1,036 65
		<hr/> <u>\$915 90</u>

Amount paid to Simpson Brothers Corporation, under contract:

3 cubic yards rock excavation @ \$5	\$15 00	
83 linear feet circular edgestone set @ 30c.	24 90	
7,101 linear feet existing edgestone reset @ 23c.	1,633 23	
99 square yards existing granite block paving relaid, gravel joints, @ \$1	99 00	
80 square yards existing granite block paving relaid in brows of car tracks, gravel base, sand bed and grout joints, @ \$2.50	200 00	
16,755 square yards asphalt concrete pavement surface layer furnished and laid on macadam foundation @ \$2.18	36,525 90	
	<hr/>	
<i>Carried forward</i>	\$38,498 03	<hr/> <u>\$915 90</u>

<i>Brought forward</i>	\$38,498 03	\$915 90
73 square yards existing brick sidewalks relaid @ 50c.	36 50	
20,724 square feet artificial stone foundation furnished and placed @ 6c.	1,243 44	
80,223 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 18c.	14,440 14	
1,875 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 25c.	468 75	
47 covers reset @ \$3	141 00	
5 Bradley head catch-basins reset @ \$5	25 00	
23 courses of brickwork laid @ 50c.	11 50	
Extra Work — Remove two trees and stumps near Walnut avenue:		
2 trees and stumps removed @ \$90	180 00	
	<hr/>	55,044 36
		<u>\$55,960 26</u>
<i>Commercial street, from Hanover street to Washington Street North</i> (Work done in 1918-19.)		
Engineering		<u>\$5 00</u>
<i>Corinth street, from Washington street to Belgrade avenue. (Work not done.)</i>		
Engineering		<u>\$31 00</u>
<i>Cunard street, from Tremont street to Columbus avenue. (Work not done.)</i>		
Engineering	\$35 65	
Engineering expense	1 70	
	<hr/>	<u>\$37 35</u>
<i>Davenport street, from Tremont street to Columbus avenue. (Work not done.)</i>		
Engineering	\$30 00	
Engineering expense	2 20	
	<hr/>	<u>\$32 20</u>
<i>Devonshire street, from Water street to Franklin street. Length, 730 linear feet. Area, 2,248 square yards. Wood block pavement laid. (Work done in 1920.)</i>		
Final payment to James Doherty for work done in 1920, under contract		<u>\$2,636 60</u>
<i>Dorchester avenue, from Dorchester Avenue Bridge to West Second street. Length, 749 linear feet. Area, 4,236 square yards. Edgestone reset, second-hand granite block pavement laid with grout joints on concrete base and brick sidewalks relaid. (Unfinished work from 1920.)</i>		

Engineering	\$245 76
Inspection	44 75
Engineering expense	10 30
Templets	27 56
Blocks	234 45

Amount paid to John Kelly Company, under contract:

Excavating and removing the paving materials, paving and filling at and near abandoned approach to Atlantic Avenue Bridge	\$400 00	
17 linear feet circular edge-stone set @ 30c.	5 10	
1,449 linear feet existing edge-stone reset @ 39c.	565 11	
1,037 square yards granite block paving hauled and laid, including hauling away old blocks and flagging, concrete base, sand bed and grout joints, @ \$4.15	4,511 05	
3,149 square yards existing granite block paving taken up, cleaned, piled and relaid, concrete base, sand bed and grout joints, @ \$4	12,596 00	
162 square yards existing granite block paving relaid, gravel base, sand bed, grout joints, @ \$2.20	356 40	
92 square yards brick sidewalks laid @ 60c.	55 20	
1,092 square yards existing brick sidewalks relaid @ 40c.,	436 80	
14 covers reset @ \$3	42 00	
7 courses of brickwork laid @ 50c.	3 50	
Extra work — Load and haul sidewalks brick from the Chestnut Hill avenue paving yard instead of from Massachusetts avenue lot:		
19,500 brick loaded and hauled from the Chestnut Hill avenue paving yard @ \$5.30 per M	103 35	
Extra work — Remove foundation of approach to abandoned Atlantic Avenue Bridge and remove existing concrete base where directed:		
532 hours' labor @ 70c.	372 40	
Plus 15 per cent on \$372.40	55 86	
27 hours, double team, @ \$1.50	40 50	
Carried forward	\$19,503 27	\$562 82

<i>Brought forward</i>	\$19,503 27	\$562 82
16 hours, auto truck, @ \$4	64 00	
Extra work — Load and haul second-hand granite blocks from the Chestnut Hill avenue paving yard instead of from the Massachusetts avenue lot:		
1 day, foreman, @ \$7	7 00	
64 hours' labor @ 50c.	32 00	
Plus 15 per cent on \$39	5 85	
32 hours, auto truck, @ \$4.37½	140 00	
24 hours, double team, @ \$1.50	36 00	
	<hr/>	
	\$19,828 12	
Less amount retained	500 00	
	<hr/>	
Less amount paid in 1920,	\$19,328 12	
	15,170 18	
	<hr/>	
		4,157 94
		<hr/>
		\$4,720 76

Dorchester avenue, from Andrews square to Savin Hill avenue. (Work done in 1918 and 1919.)

Engineering	\$22 27
Final payment to William J. Barry for work done under contract in 1919	2,000 00
	<hr/>
	\$2,022 27

Dorchester avenue, from Park street to Ashmont street. Length 4,665 linear feet. Area, 15,832 square yards. Reset edgestone and relaying east side of roadway with recut granite blocks, grout joints and concrete base and the west side with new blocks on concrete base with asphalt joints. The wood block was laid on concrete base with sand joints and artificial stone sidewalks were constructed.

Engineering	\$1,091 00
Inspection	1,481 10
Engineering expenses	49 85
Advertising	17 10
Expert services	98 90
Edgestone	271 46
Blocks, wood paving, 4,603	287 68
Blocks, large granite, 166,425	18,766 27
Blocks, recut granite, 34,825	2,089 50
	<hr/>

Credit: Old granite blocks \$1,113 50

Old sidewalk bricks 26 60

1,140 10

Amount paid to Gore, Inc., under contract:

Removing trees, bushes, etc. \$20 00

57 linear feet circular edgestone set @ 20c. 11 40

Carried forward \$1,171 50

\$23,012 76

<i>Brought forward</i>	\$1,171 50	\$23,012 76
2,171 linear feet existing edge-stone reset @ 18c.	390 78	
88 square yards existing granite block pavement laid, gravel joints, @ 65c.	57 20	
5,800 square yards granite block paving laid, concrete base, sand bed and asphalt joints, @ \$2.59,	15,022 00	
7,900 square yards existing granite block paving recut and relaid, concrete base, sand bed and grout joints, @ \$3.06	24,174 00	
1,840 square yards wood block pavement furnished and laid, concrete base, mortar bed, etc., @ \$4.75,	8,740 00	
17 square yards existing brick sidewalks relaid @ 40c.	6 80	
16,500 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 17c.	2,805 00	
650 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 21c.	136 50	
4,000 square feet artificial stone foundation furnished and placed @ 3c.	120 00	
47 covers reset @ \$33	141 00	
28 courses of brickwork laid @ 50c.	14 00	
Extra work — relay the existing granite block pavement with grout joints where directed.		
65 square yards existing granite block paving relaid, grout joints, @ \$1.25	81 25	
Extra work — Haul recut blocks from Massachusetts avenue lot.		
112 hours, labor @ 40c.	44 80	
Plus 15 per cent on \$44.80,	6 72	
96 hours, double team @ \$1,	96 00	
8 hours, auto truck @ \$3.75,	30 00	
	<hr/>	
	\$51,897 45	
Less 15 per cent retained,	7,784 62	
	<hr/>	
	44,112 83	
	<hr/>	
	<u>\$67,125 59</u>	

Dorchester street (East and West Broadway to East and West Eighth street).
 Length, 1,720 linear feet. Area, 8,066 square yards. Edgestone set.
 Bitulithic pavement laid on concrete base and artificial stone sidewalks
 constructed.

Engineering	\$655 91
Inspection	1,060 02
Engineering expense	28 60
Advertising	15 50
Templets	31 12
Edgestone	359 77
Expert services	9 90
Labor	88 00

	\$2,248 82
Credit: Bricks, sidewalk	1,017 70
	<hr/> \$1,231 12

Amount paid to Samuel J. Tomassello under contract:

132 linear feet circular edgestone set @ 30c.	\$39 60	
2,811 linear feet existing edgestone reset @ 30c.	843 30	
52 cubic yards extra concrete base furnished and laid @ \$9	468 00	
325 square yards existing granite block paving relaid, gravel joints, @ \$1,	325 00	
904 square yards existing granite block paving relaid, asphalt joints, @ \$1.65	1,491 60	
329 square yards existing granite block paving relaid in brows of car tracks, sand bed and grout joints, @ \$1.50	493 50	
6,508 square yards concrete base and bitulithic pavement furnished and laid @ \$4.35	28,309 80	
278 square yards existing brick sidewalks relaid @ 60c.	166 80	
18 covers reset @ \$3	54 00	
1 Bradley-head catch-basin reset @ \$5	5 00	
10 courses of brick work laid @ 50c.	5 00	
Extra work — Regulate existing edgestone and furnish and lay artificial stone sidewalks.		
33,518 square feet artificial stone sidewalks furnished and laid @ 26c.	8,714 68	
<i>Carried forward</i>	\$40,806 28	<hr/> \$1,231 12

<i>Brought forward</i>	\$40,806 28	\$1,231 12
Extra work — Remove trees, where directed.		
4 trees removed @ \$100 . . .	400 00	
Extra work — Remove stumps of old trees under existing brick sidewalk.		
72 hours' labor, @ 40c. . . .	28 80	
Plus 15 per cent on \$28.80 . .	4 32	
Extra work — Recut old paving blocks to be used for repaving brow to car tracks.		
275 square yards granite block recut @ 65c.	178 75	
Section 1. Article E. Overhaul.		
1,406 tons surplus material hauled to Old Colony avenue (more than one mile and less than one and one-half miles) $\frac{1}{2}$ mile overhaul at 15c. per ton per half mile.	210 90	
84 $\frac{1}{2}$ tons sidewalk brick hauled to L street (instead of city paving yard on Columbia road at H street) one half mile overhaul @ 15c. per ton per half mile	12 68	
	<hr/>	
	\$41,751 73	
Less 15 per cent retained,	6,262 76	
	<hr/>	
		35,488 97
		<hr/>
		\$36,720 09

Dudley street, from Alexander street to Stoughton street. Length, 1,400 linear feet. Area, 5,941 square yards. Edgestone set; granite block paving laid and relaid; artificial stone sidewalks and driveways constructed. (Unfinished work from 1920.)

Engineering	\$131 13
Inspection	195 58
Engineering expense	17 60
Blocks, old granite	427 50
Bricks	7 50
Edgestone	14 17
Amount paid to DeStefano Brothers under contract:	
47 linear feet circular edgestone set @ 60c.	\$28 20
1,752 linear feet existing edgestone reset @ 35c.	613 20
62 square yards existing granite block paving relaid, gravel joints, @ \$1.50	93 00
	<hr/>
<i>Carried forward</i>	\$734 40
	<hr/>
	\$893 48

<i>Brought forward</i>	\$734 40	\$893 48
855 square yards granite block paving hauled and laid, including hauling away old blocks and flagging, concrete base, sand bed and grout joints, @ \$4.50	3,847 50	
5,564 square yards existing granite block paving taken up, cleaned, piled and relaid, concrete base, sand bed and grout joints @ \$4.40	24,481 60	
57 square yards brick sidewalks relaid @ 75c.	42 75	
16,607 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 33c.	5,480 31	
126 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 60c.	75 60	
2 covers reset @ \$3	6 00	
4 courses of brick work laid @ 50c.	2 00	
Extra work — Relay existing granite block paving on gravel base with grout joints where directed:		
403 square yards granite block paving relaid, gravel base and grout joints, @ \$2	806 00	
Section 1, Article E, Overhaul:		
77 tons blocks hauled from East Fifth street lot (instead of from Massachusetts avenue lot) one and one half miles overhaul @ 11c. per ton per half mile	25 41	
12 tons blocks hauled from Centre street near Montclair street (instead of from Massachusetts avenue lot), five miles overhaul @ 11c. per ton per half mile	13 20	
Extra work — Rect blocks to connect with 4-inch work on Columbia road and clean pitch and pebbles from blocks furnished by city from Massachusetts avenue lot:		
<i>Carried forward</i>	<u>\$35,514 77</u>	<u>\$893 48</u>

<i>Brought forward</i>	\$35,514 77	
66 hours' labor @ 65c.	42 90	\$893 48
Plus 15 per cent on \$42.90,	6 44	
	<hr/>	
	\$35,564 11	
Less amount paid in 1920,	30,925 19	
	<hr/>	
		4,638 92
		<hr/>
		\$5,432 40

East Fourth street, from K street across P street. (Work done in 1919 and 1920.)

Engineering expense	\$0 30
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East and West Concord streets, from Albany street to Columbus avenue. (Work not started.)

Engineering	\$204 93
Engineering expense	6 80
	<hr/>
	\$211 73

East and West Springfield streets, from Harrison avenue to Columbus avenue. (Work not started.)

Engineering	\$242 41
Engineering expense	5 20
	<hr/>
	\$247 61

Exeter street, from Boylston street to Commonwealth avenue. (Work not started.)

Engineering	\$65 75
Engineering expense	10
	<hr/>
	\$65 85

Fairfield street, from Boylston street to Beacon street. (Work not started.)

Engineering	\$184 63
Engineering expense	3 90
	<hr/>
	\$188 53

Franklin street, 60 feet west of Devonshire street to Broad street. (Work done in 1920.)

Engineering	\$26 00
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Friend street, from Union street to Causeway street. Length, 1,860 linear feet. Area, 6,010 square yards. Edgestone reset, granite block paving laid and relaid and artificial stone sidewalks constructed. (Unfinished work from 1920.)

Engineering	\$435 18
Inspection	411 30
Engineering expense	3 05
Edgestone	198 64
Teaming	16 00
	<hr/>
	\$1,064 17
Credit: Bricks, sidewalk	56 00
	<hr/>
	\$1,008 17

Amount paid to B. E. Grant, under contract:

15 cubic yards extra excavation @ \$2	\$30 00
	<hr/>
<i>Carried forward</i>	\$30 00
	<hr/>
	\$1,008 17

<i>Brought forward</i>	\$30 00	\$1,008 17
3,444 square yards existing concrete base excavated and removed @ \$1	3,444 00	
10 linear feet straight edge-stone set @ 50c.	5 00	
93 linear feet circular edge-stone set @ 75c.	69 75	
2,122 linear feet existing edge-stone reset @ 30c.	636 60	
981 cubic yards concrete base furnished and laid @ \$14	13,734 00	
88 square yards existing granite block paving relaid, gravel joints @ \$1.50	132 00	
194 square yards granite block paving hauled and laid, including hauling away old blocks and flagging, sand bed and grout joints @ \$2.65	514 10	
5,816 square yards existing granite block paving taken up, cleaned, piled and relaid, sand bed, grout joints @ \$2.25	13,086 00	
22 square yards existing brick sidewalks relaid @ \$1	22 00	
12,247 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 28c.	3,429 16	
19 covers reset @ \$3	57 00	
1 Bradley head catch-basin reset @ \$5	5 00	
40 courses of brickwork laid @ 50c.	20 00	
Extra work — Bar out, load and haul granite paving blocks from area occupied by Boston Elevated Railway track:		
158 square yards granite blocks barred out, loaded and hauled @ 50c.	79 00	
	<hr/> \$35,263 61	
Less amount paid in 1920	9,285 97	
	<hr/>	25,977 64
		<hr/> <u>\$26,985 81</u>

Gloucester street, from Boylston street to Beacon street (Work not started.)

Engineering	\$140 81	
Engineering expense	1 40	
	<hr/>	<u>\$142 21</u>

Green street, from Call street to Centre street. Length, 1,992 linear feet.
Area, 6,410 square yards. Edgestone reset, Topeka pavement laid
on macadam foundation and artificial stone sidewalks constructed.

Engineering	\$235 21
Inspection	327 48
Engineering expense	6 95
Edgestone	478 98

\$1,048 62

Credit: Bricks, sidewalk	171 50
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\$877 12

Amount paid to Central Construction Com-
pany, under contract:

12 cubic yards extra excava- tion @ \$2.50	\$30 00
337 tons crushed stone fur- nished, placed, watered and rolled @ \$3	1,011 00
29 linear feet straight edge- stone set @ 32c.	9 28
164 linear feet circular edge- stone set @ 35c.	57 40
3,686 linear feet existing edge- stone reset @ 30c.	1,105 80
47 square yards existing granite block paving relaid, gravel joints @ 80c.	37 60
37 square yards existing granite block paving relaid in driveways and edgings, gravel base, sand bed and grout joints @ \$2	74 00
6,326 square yards Topeka wear- ing surface furnished and laid on macadam founda- tion @ \$2.35	14,866 10
80 square yards brick side- walks relaid @ 70c.	56 00
23,008 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 26c.	5,982 08
7 covers reset @ \$3	21 00
881 square feet artificial stone driveways, concrete base and wearing sur- face, furnished and laid, @ 35c.	308 35
5 courses of brickwork laid @ 50c.	2 50

23,561 11

\$24,438 23

Hereford street, from Beacon street to Boylston street. (Work not started.)

Engineering	\$142 35
Engineering expense	3 80

\$146 15

Humboldt avenue, from Walnut avenue to Seaver street. (Work not started.)

Engineering \$75 00

Huntington avenue, (north side), from the east side of Gainsborough street to the west side of Hemenway street. Length 1,882 linear feet. Area, 6,200 square yards. Edgestone reset, asphalt concrete pavement laid on macadam foundation and artificial stone sidewalks constructed.

Engineering	\$409 12
Inspection	364 36
Engineering expense	12 90
Advertising	3 75
Expert services	9 90
Edgestone	436 34

\$1,236 37

Credit: Bricks, old sidewalk	\$205 10
Blocks, old paving	20 00

225 10

\$1,011 27

Amount paid to Andrews Construction Company, under contract:

798 tons crushed stone furnished, placed, watered and rolled @ \$3	\$2,394 00
148 linear feet straight edge-stone set @ 25c.	37 00
51 linear feet circular edge-stone set @ 25c.	12 75
1,242 linear feet existing edge-stone reset @ 25c.	310 50
59 square yards existing granite block paving relaid, gravel joints, @ \$1	59 00
28 square yards existing granite block paving relaid in brows of car tracks, gravel base, sand bed, grout joints, @ \$2	56 00
6,113 square yards asphalt concrete pavement surface layer, furnished and laid on macadam foundation, @ \$2.40	14,571 20
138 square yards existing brick sidewalks relaid @ \$1	138 00
1,896 square feet artificial stone foundation furnished and placed @ 1c.	18 96
12,831 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 23c.	2,951 13
4 covers reset @ \$3	12 00
5 courses of brick work laid @ 50c.	2 50

20,663 04

\$21,674 31

John Eliot square. (Work not started.)

Engineering	\$50 68
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Main street, Charlestown, from City square across Alford street. Length, 5,690 linear feet. Area, 30,685 square yards. Edgestone reset, recut granite block pavement laid and artificial stone sidewalks constructed. Work done in 1919 and 1920.

Engineering expense	\$1 80	
Final payment to William J. Barry for work done under contract in 1919 and 1920	1,000 00	
		<u>\$1,001 80</u>

Market street, from Washington street across Western avenue. Length, 5,015 linear feet. Area, 22,217 square yards. Edgestone set and reset. Simasco pavement laid and artificial stone sidewalks constructed. (Unfinished work from 1920.)

Engineering	\$1,207 97
Inspection	698 01
Engineering expense	36 05
Manhole alterations	75 02
Edgestone	1,995 17

Amount paid Simpson Brothers Corporation, under contract:

5.8 cubic yards rock excavation @ \$5	\$29 00
66 tons crushed stone furnished, placed, watered and rolled, @ \$3	198 00
120 linear feet straight edgestone set @ 35c.	42 00
670 linear feet circular edgestone set @ 40c.	268 00
7,820 linear feet existing edgestone reset @ 30c.,	2,346 00
56 square yards existing granite block paving relaid, gravel joints, @ \$1	56 00
198 square yards existing granite block paving relaid, concrete base, sand bed and grout joints, @ \$4.50 *	891 00
3,206 square yards existing granite block paving relaid in driveways and edgings, gravel base, sand bed, grout joints, @ \$2,	6,412 00
18,757 square yards Simasco pavement furnished and laid @ \$2.50	46,892 50
73,552 square feet artificial stone foundation furnished and placed @ 6c.	4,413 18
70,423 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 26c.,	18,309 98

<i>Carried forward</i>	\$79,857 66	<u>\$1,012 22</u>
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* Decrease of \$0.50 per square yard.

<i>Brought forward</i>	\$79,857 66	\$4,012 22
4,763 square feet artificial stone driveways, concrete base and wearing surface, fur- nished and laid, @ 33c.,	1,571 79	
87 covers reset @ \$3	261 00	
135 courses of brick work laid @ 50c.	67 50	
16 Bradley head catch-basins reset @ \$5	80 00	
Extra work — Haul second-hand paving from Market street to Bright- on Paving Yard, Chest- nut Hill avenue:		
58,136 square yards blocks hauled to yard @ \$10 M.	581 36	
Extra work — Cut stump in sidewalk and change edgestone for special catch-basin at Garden street:		
5 hours, edgestone setter, @ \$1	5 00	
31 hours' labor @ 40c.	12 40	
Plus 15 per cent on \$17.40,	2 61	
Extra work — Grade and make safe approaches at Leicester street, Waver- ly street and Western avenue:		
27 hours, foreman, @ 87½c.,	23 63	
270 hours' labor @ 40c.	108 00	
8 hours, edgestone setter, @ \$1	8 00	
Plus 15 per cent on \$139.63	20 94	
95 hours, double team, @ \$1,	95 00	
1 hour, auto truck, @ \$3.50,	3 50	
10 feet 6-inch pipe @ 32c.	3 20	
1 bag cement @ 80c.	80	
2 feet screen @ 50c.	1 00	
	<hr/>	
	\$82,703 39	
Less amount paid in 1920,	764 28	
	<hr/>	
	81,939 11	
		<hr/>
		\$85,951 33
<i>Milford street</i> , from Shawmut avenue to Tremont street. (Work not started.)		
Engineering	\$46 65	
Engineering expense	3 20	
	<hr/>	
		\$49 85
<i>Mt. Vernon street</i> , from Joy street to West Cedar street. Length, 1,200 linear feet. Area, 4,511 square yards. Edgestone reset, bituminous macadam roadway laid and brick sidewalks relaid. (Unfinished work from 1920.)		
Engineering	\$86 30	
Teaming	95 78	
	<hr/>	
<i>Carried forward</i>	\$182 08	

<i>Brought forward</i>		
Amount paid to John W. O'Connell, under contract:		\$182 08
477 linear feet straight edge-stone set @ 39c. . . .	\$186 03	
52 linear feet circular edge-stone set @ 40c. . . .	20 80	
1,558 linear feet existing edge-stone reset @ 39c. . . .	607 62	
245 square yards existing granite block or cobble paving relaid, gravel joints, @ \$1.45	355 25	
1,655 square yards brick block paving hauled and laid, concrete base, cement sand bed and grout joints (unfinished), @ \$1.10	1,820 50	
1,863 square yards existing brick sidewalks relaid @ 70c.,	1,304 10	
16,500 bricks loaded and hauled, from Chestnut Hill Paving Yard, Brighton, @ \$4 per M. . . .	66 00	
5 covers reset @ \$3 . . .	15 00	
1 Bradley head catch-basin reset @ \$5	5 00	
Extra work — Omit Items 7a and 7b (hauling and laying brick block paving, etc.,) and substitute excavating, subgrading and rolling crushed stone:		
4,326 square yards excavation, subgrading and crushed stone rolled, @ \$1.55 . .	6,705 30	
Extra work — Break out brick laid in cement and relay the same and cut roots where directed:		
10 hours', foreman, @ \$1.10,	11 00	
97 hours' labor @ 70c. . . .	67 90	
Plus 15 per cent on \$78.90,	11 84	
3½ barrels cement @ \$6 . .	21 00	
2 cubic yards sand @ \$2.50,	5 00	
	<hr/>	
	\$11,202 34	
Less amount paid in 1921,	7,311 74	
	<hr/>	
	3,890 60	
	<hr/>	
	\$4,072 68	

Northampton street, from Washington street to Albany street. (Work not started.)

Engineering	\$72 12	
Engineering expense	50	
	<hr/>	
	\$72 62	

Pleasant street, from Stoughton street to Savin Hill avenue. Length, 830 linear feet. Area, 2,533 square yards. Edgestone set, granite blocks laid in dunny of car tracks. Topeka pavement laid and artificial stone sidewalks constructed. (Work done in 1920.)

Engineering	\$14 00	
Engineering expense	12 40	
Final payment to Francis J. Burke for work done under contract in 1920	994 32	
		<hr/> \$1,020 72

Portland street, from Hanover street to Causeway street. Length, 1,696 linear feet. Area, 7,266 square yards. Edgestone set, second-hand granite block pavement laid on 6-inch concrete base, grout joints and artificial stone sidewalks constructed. In connection with this contract, work was done in Hanover street, Traverse street, Chardon street and Causeway street.

Engineering	\$437 38	
Inspection	753 63	
Engineering expense	2 40	
Stone cutter	45 00	
Edgestone	691 89	
Blocks, old granite	1,584 82	
		<hr/>
	\$3,515 12	
Credit: Bricks	187 60	
		<hr/>
	\$3,327 52	

Amount paid to B. E. Grant, under contract:

50 cubic yards excavation @ \$2	\$100 00	
7,107 square yards existing concrete base excavated and removed @ \$1	7,107 00	
353 linear feet straight edgestone set @ 50c.	176 50	
47 linear feet circular edgestone set @ 75c.	35 25	
2,327 linear feet existing edgestone reset @ 30c.	698 10	
1,184 cubic yards concrete base furnished and laid @ \$14	16,576 00	
2,096 square yards granite block paving hauled and laid, including hauling away old blocks and flagging, sand bed and grout joints, @ \$2.65	5,554 40	
5,170 square yards existing granite block paving taken up, cleaned, piled and relaid, sand bed and grout joints, @ \$2.25	11,632 50	
82 square yards existing brick sidewalks relaid @ \$1	82 00	
17,221 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 28c.,	4,821 88	
18 covers reset @ \$3	54 00	
		<hr/>
Carried forward	\$46,837 63	\$3,327 52

<i>Brought forward</i>	\$46,837 63	\$3,327 52
2 Bradley head catch-basins reset @ \$5	10 00	
40 courses of brickwork laid @ 50c.	20 00	
Section 1, Article E, over- haul:		
328 tons granite block hauled from District 2, East Boston (instead of from Massachusetts avenue lot), one and one half miles overhaul @ 11c. per ton per half mile	108 24	
78 tons granite block hauled from District 4, Brighton (instead of from Massa- chusetts avenue lot), one and one half miles overhaul @ 11c. per ton per half mile	25 74	
413 tons granite block hauled from District 7, Rox- bury (instead of from Massachusetts avenue lot), one and one half miles overhaul @ 11c. per ton per half mile	136 29	
Extra work — Bar out, load and haul granite paving blocks from area occupied by Boston Ele- vated Railway tracks:		
526 square yards granite blocks barred out, loaded and hauled, @ 50c.	263 00	
	<hr/>	47,400 90
		<hr/> <u>\$50,728 42</u>

Ralston street, northerly side, from Boston street, about 85 feet easterly.
Work done in 1920.

Final payment for work done by the Andrews Construction Company, under contract, in 1920.	\$589 50
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Richmond street, from Hanover street to Atlantic avenue. Length, 1,213
linear feet. Area, 4,678 square yards. Edgestone reset, second-hand
granite block pavement laid on 6-inch concrete base, grout joints, and
artificial stone sidewalks constructed.

Engineering	\$138 74
Inspection	232 04
Engineering expense	1 65
Edgestone	93 77
Blocks, old granite	2,510 10
	<hr/>
	\$2,976 30
Credit: Bricks, old sidewalk	12 00
	<hr/>
	\$2,964 30
<i>Carried forward</i>	\$2,964 30

<i>Brought forward</i>		\$2,964 30
Amount paid to B. E. Grant Company, under contract:		
31 linear feet straight edge-stone set @ 50c.	\$15 50	
13 linear feet circular edge-stone set @ 75c.	9 75	
1,670 linear feet existing edge-stone reset @ 30c.	501 00	
709 cubic yards concrete base furnished and laid @ \$4,	9,926 00	
496 square yards existing granite block paving relaid, gravel joints, @ \$1.50	744 00	
2,789 square yards granite block paving hauled and laid, including hauling away old blocks and flagging, sand bed and grout joints, @ \$2.65	7,390 85	
1,889 square yards existing granite block paving taken up, cleaned, piled and relaid, sand bed, grout joints, @ \$2.25	4,250 25	
51 square yards existing brick sidewalks relaid @ \$1	51 00	
9,076 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 28c.	2,541 28	
15 covers reset @ \$3	45 00	
1 Bradley head catch-basin reset @ \$5	5 00	
32 courses of brickwork laid @ 50c.	16 00	
Section 1, Article E, Overhaul:		
633 tons granite block hauled from District 2, East Boston (instead of from Massachusetts avenue lot), one and one half miles overhaul @ 11c. per ton per half mile	208 89	
204 tons granite blocks hauled from District 7, Roxbury (instead of from Massachusetts avenue lot), one and one half miles overhaul @ 11c. per ton per half mile	67 32	
Extra work — Remove concrete base where directed and lay new concrete base and relay granite block paving with grout joints in Hanover street, between Elm street and Washington street:		
<i>Carried forward</i>	\$25,771.84	\$2,964 30

<i>Brought forward</i>	\$25,771 84	\$2,964 30
257 square yards existing concrete base excavated and removed @ \$1	257 00	
9 linear feet existing edge-stone reset @ 30c.	2 70	
74 cubic yards concrete base furnished and laid @ \$14.	1,036 00	
885 square yards existing granite block paving taken up, cleaned, piled and relaid, sand bed and grout joints, @ \$2.25	1,991 25	
17 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 28c.	4 76	
Extra work — Reset edge-stone, lay concrete base, relay granite block paving with grout joints and lay brick sidewalks and artificial stone sidewalks in Market street, between Canal street and Portland street:		
416 linear feet existing edge-stone reset @ 30c.	124 80	
112 linear feet concrete base furnished and laid @ \$14.	1,568 00	
721 square yards existing granite block paving taken up, cleaned, piled and relaid, sand bed, grout joints, @ \$2.25	1,622 25	
180 square yards existing brick sidewalks relaid @ \$1	180 00	
875 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 28c.	245 00	
Extra work — Reset edge-stone, remove and furnish and lay concrete base where directed, relay granite block pavement with grout joints and lay artificial stone sidewalks in Merrimac street, between Sudbury street and Portland street:		
11 cubic yards extra excavation @ \$2	22 00	
728 square yards existing concrete base excavated and removed, @ \$1	728 00	
377 linear feet existing edge-stone reset @ 30c.	113 10	
<i>Carried forward</i>	\$33,666 70	\$2,964 30

<i>Brought forward</i>	\$33,666 70	\$2,964 30
103 cubic yards concrete base furnished and laid, @ \$14	1,442 00	
859 square yards existing gran- ite block paving taken up, cleaned, piled and re- laid, sand bed and grout joints, @ \$2.25	1,932 75	
3,340 square feet artificial stone sidewalks, concrete base and wearing surface, fur- nished and laid, @ 28c. .	935 20	
Extra work — Bar out, load and haul, granite paving blocks from area occupied by Boston Ele- vated Railway tracks in Merrimac street:		
113 square yards granite block barred out, loaded and hauled @ 50c.	56 50	
Extra work — Reset edge- stone, relay granite block paving with grout joints and relay brick side- walks in Traverse street, between Canal street and Friend street:		
259 linear feet existing edge- stone reset @ 30c. . . .	77 70	
540 square yards existing gran- ite block paving taken up, cleaned, piled and re- laid, sand bed, grout joints, @ \$2.25	1,215 00	
139 square yards existing brick sidewalks relaid @ \$1 . .	139 00	
	<hr/>	39,464 85
		<hr/> <u>\$42,429 15</u>

River street, from bridge over Providence Division Railroad, across Everett square. Length, 1,269 linear feet. Area, 6,020 square yards. Edgestone reset, recut granite blocks laid in car tracks and brows to track, concrete base and grout joints. Topeka pavement laid on macadam foundation and artificial stone sidewalks constructed.

Engineering	\$448 21
Inspection	634 08
Engineering expense	23 05
Relocating pole	28 22
Edgestone	253 62
Blocks, old granite recut	2,580 00
Amount paid to Central Construction Com- pany, under contract:	
29 cubic yards extra excava- tion @ \$2.50	\$72 50
47.7 tons crushed stone fur- nished, placed, watered and rolled @ \$3.70	176 49
	<hr/>
<i>Carried forward</i>	\$248 99
	<hr/> <u>\$3,967 18</u>

<i>Brought forward</i>	\$248 99	\$3,967 18
35 linear feet straight edge-stone set @ 28c.	9 80	
75 linear feet circular edge-stone set @ 40c.	30 00	
1,785 linear feet existing edge-stone reset @ 28c.	499 80	
1 square yard existing granite block paving relaid, gravel joints, @ \$1.25	1 25	
738 square yards existing granite block paving recut and relaid in car tracks, concrete base, sand bed, grout joints, @ \$5.	3,690 00	
219 square yards existing granite block paving relaid, in brows of car tracks, concrete base, sand bed and grout joints, @ \$5	1,095 00	
5,748 square yards Topeka wearing surface, furnished and laid, on macadam foundation @ \$2.30	13,220 40	
6,031 square feet artificial stone foundation furnished and placed @ 6c.	361 86	
14,369 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 30c.,	4,310 70	
305 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 35c.	106 75	
17 covers reset @ \$3	51 00	
11 courses of brickwork laid @ 50c.	5 50	
Extra work — Furnish and place plank at railroad fence to support sidewalk:		
10 hours, carpenter, @ 90c.	9 00	
20 hours' labor @ 45c.	9 00	
Plus 15 per cent on \$18	2 70	
470 feet B. M. 2-inch by 8-inch plank furnished and placed @ \$60 M.	28 20	
Extra work — Remove edgestone already set and construct driveway as directed and joint edgestone where directed:		
22 hours, stone cutter, @ \$1,	22 00	
8 hours' labor @ 55c.	4 40	
Plus 15 per cent on \$26.40,	3 96	
	<hr/>	23,710 31
		<hr/> <u>\$27,677 49</u>

Robert street, from Belgrade avenue to South street. (Work not started.)

Engineering	\$159 37	
Engineering expense	2.60	
		<u>\$161 97</u>

Roxbury street, from Kent street to John Eliot square. (Work not started.)

Engineering	\$4 00	
		<u>\$4 00</u>

Rutherford avenue, from Cambridge street to Chapman street. (Work done in 1920.)

Engineering expense	\$0 60	
		<u>\$0 60</u>

Rutland street, and *Rutland square*, from Washington street to Columbus avenue. (Work not started.)

Engineering	\$128 30	
Engineering expense	4 70	
		<u>\$133 00</u>

Sarsfield street, from Tremont street to Grinnell street. (Work not started.)

Engineering	\$41 60	
Engineering expense	1 30	
		<u>\$42 90</u>

* *Seaver street*, from Blue Hill avenue to Columbia road. Length, 651 linear feet. Area, 3,209 square yards. Edgestone set and reset, asphalt concrete pavement laid on macadam foundation and artificial stone sidewalks constructed.

Engineering	\$301 43	
Inspection	154 64	
Engineering expense	2 70	
Advertising	7 70	
Photographs	34 00	
Expert services	9 90	
Edgestone, 273 feet straight	516 28	
		<u>\$1,026 65</u>
Credit: Blocks, old granite	\$56 00	
Flagging, old	16 00	
		<u>72 00</u>

Amount paid to Simpson Brothers Corporation, under contract: \$954 65

1 cubic yard rock excavation	
@ \$5	\$5 00
224 tons crushed stone furnished, placed, watered and rolled @ \$2.75	616 00
274 linear feet straight edge-stone set @ 25c.	68 50
5 linear feet circular edge-stone set @ 30c.	1 50
648 linear feet existing edge-stone reset @ 23c.	149 04
197 linear feet crushed stone and concrete foundation furnished and placed @ 25c.	49 25
	<u>49 25</u>

<i>Carried forward</i>	\$889 29	<u>\$954 65</u>
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* Done in connection with Columbus avenue.

<i>Brought forward</i>		
40 square yards existing granite block paving relaid, gravel joints, @ \$1	\$889 29	\$954 65
44 square yards existing granite block paving relaid in brows of car tracks, gravel base, sand bed and grout joints, @ \$2.50	40 00	
3,125 square yards asphalt concrete pavement surface layer furnished and laid on macadam foundation @ \$2.18	110 00	
3,442 square feet artificial stone foundation furnished and placed @ 6c.	6,812 50	
3,532 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 18c.	206 52	
141 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 25c.	635 76	
13 covers reset @ \$3.	35 25	
Extra work — Furnish and lay six (6) inch concrete base in dummy and brows of car tracks in Columbia road to conform with the construction already there:	39 00	
29 square yards concrete base furnished and laid @ \$1.75	50 75	
Section 1, Article E, overhaul:		
20 tons flagging hauled to Chestnut Hill Avenue Yard (instead of to Highland Street Yard), $3\frac{1}{2}$ miles overhaul @ 15c. per ton per half mile	21 00	
	<hr/>	8,840 07
		<hr/> <u>\$9,794 72</u>

Shawmut avenue, from Tremont street to Roxbury street. (Work not started.)

Engineering	\$436 67	
Engineering expense	27 40	
	<hr/>	<u>\$464 07</u>

South street, from Washington street to Belgrade avenue. (Work not started.)

Engineering	\$164 81	
Engineering expense	2 00	
	<hr/>	<u>\$166 81</u>

Southampton street, from Albany street to Massachusetts avenue. (Work not started.)

Engineering	<u>\$34 00</u>
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Stoughton street, from Columbia road to Pleasant street. (Work done in 1920.)

Engineering	\$3 00
Engineering expense	30
	<u>\$3 30</u>

Tremont street, from Dover street to Northampton street. (Work done in 1920.)

Recut blocks	<u>\$2 10</u>
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Walpole street, from Tremont street to Grinnell street. (Work not started.)

Engineering	\$22 00
Engineering expense	2 30
	<u>\$24 30</u>

Warren street, from Dudley street to Blue Hill avenue. (Work not started.)

Engineering	<u>\$10 00</u>
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Washington street, from Beach street across Kneeland street. Length, 290 linear feet. Area, 942 square yards. Edgestone reset, wood block pavement laid on concrete base and artificial stone sidewalks constructed. (Unfinished work from 1920.)

Engineering	\$33 03
Inspection	24 29
Engineering expense	2 35
Expert services	25 02
Stonecutter	5 00
Blocks, recut granite	30 00
Teaming	8 00
	<u>\$127 69</u>

Credit: Bricks, old sidewalk	42 00
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\$85 69

Amount paid to James Doherty, under contract:

15 linear feet circular edgestone set @ 39c.	\$5 85
83 linear feet existing edgestone reset @ 30c.	24 90
135 cubic yards concrete base furnished and laid @ \$11,	1,485 00
68 square yards existing granite block paving relaid, gravel joints, @ \$1	68 00
92 square yards granite block paving recut and relaid, sand bed and grout joints, @ \$2.23	205 16
192 square yards existing granite block paving relaid, grout joints, @ \$1.85	353 28

<i>Carried forward</i>	<u>\$2,142 19</u>	<u>\$85 69</u>
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<i>Brought forward</i>	\$2,142 19	\$85 69
590 square yards wood block pavement furnished and laid @ \$5.19	3,062 10	
68 square yards existing brick sidewalks relaid @ 55c.	37 40	
686 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 32c.	219 52	
5 covers reset @ \$3	15 00	
	<hr/>	
	\$5,476 21	
Less amount paid in 1920	4,030 46	
	<hr/>	
		1,445 75
		<hr/>
		<u>\$1,531 44</u>

Washington street, West Roxbury, from Archdale road to 75 feet south of Corinth street. Length, 3,387 linear feet. Area, 16,559 square yards. Edgestone set and reset, gravel sidewalk graded, 5-inch granite block pavement laid on 6-inch concrete base, each side of track, and recut blocks on 6-inch concrete base laid in track location. (Unfinished work from 1920.)

Engineering	\$530 08
Engineering expense	25 10
Edgestone	186 45
Lumber	2 70
Teaming	373 20

Amount paid to Boston Elevated Railway Company:

6,251 square yards paving barred out and blocks recut @ \$1.13,	\$7,063 63	
5,654 square yards concrete base and basing laid @ \$3.52	19,870 40	
	<hr/>	
		26,934 03

Amount paid to William J. Barry, under contract:

Removing trees, bushes, etc.	\$100 00
13 cubic yards rock excavation @ \$5	65 00
4,413 linear feet straight edgestone set @ 30c.	1,323 90
369 linear feet circular edgestone set @ 30c.	110 70
1,397 linear feet existing edgestone reset @ 30c.	419 10
560 linear feet crushed stone and concrete foundation furnished and placed @ 10c.	56 00
12,939 square yards granite block paving furnished and laid, concrete base, sand bed and grout joints, @ \$7.75	100,277 25
20 square yards granite block paving relaid, gravel base, sand bed and grout joints, @ \$2	40 00

<i>Carried forward</i>	\$102,391 95	\$28,051 56
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<i>Brought forward</i>	\$102,391 95	\$28,051 56
73 square yards existing brick sidewalks relaid @ 50c.,	36 50	
240 square feet artificial stone foundation furnished and placed @ 6c.	14 40	
1,448 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 30c.,	434 40	
18 covers reset @ \$3	54 00	
1 Bradley head catch-basin reset @ \$5	5 00	
5 courses of brickwork laid @ 50c.	2 50	
3,248 square yards gravel sidewalks placed, shaped, watered and rolled @ 30c.	974 40	
Extra work — Furnish and lay granite block paving, gravel base, grout joints on approaches as directed:		
116 square yards granite block paving furnished and laid, gravel base and grout joints, @ \$5.75	667 00	
Extra work — Grade approaches to Murray Hill road and place crushed stone to back up paving at side streets of Washington street:		
1 day, foreman, @ \$8	8 00	
5½ days' labor @ \$5.60	30 80	
Plus 15 per cent on \$38.80,	5 82	
1 day, auto truck, @ \$35	35 00	
29 tons crushed stone placed @ \$2.75	79 75	
Extra work — Haul excavated material to Walter street at Centre street:		
4 days, auto truck, @ \$35	140 00	
Extra work — Haul surplus recut blocks of Boston Elevated Railway Company to Belgrade avenue:		
1 day, foreman, @ \$8	8 00	
12½ days' labor @ \$5.60	70 00	
Plus 15 per cent on \$78	11 70	
3½ days, auto truck, @ \$35	122 50	
Extra work — Replace concrete base removed by Water Service:		
3½ square yards concrete replaced @ \$2.85	9 50	
Extra work — Remove buried stump in edge-stone trench:		
<i>Carried forward</i>	\$105,101 22	\$28,051 56

<i>Brought forward</i>	\$105,101 22	\$28,051 56
1 day's labor @ \$5.60	5 60	
Plus 15 per cent on \$5.60,	84	
Extra work — Light dummy of track location during suspension of work by Boston Elevated Railway Company:		
18 $\frac{3}{4}$ days' labor @ \$5.60	105 00	
Plus 15 per cent on \$105,	15 75	
2,650 lights (breakage and oil) @ 10c.	265 00	
	<u>\$105,493 41</u>	
Less amount paid in 1920,	98,837 61	
		<u>6,655 80</u>
		<u>34,707 36</u>

Washington street, from Market street across Tremont street. (Work done in 1919 and 1920.)

Engineering	\$36 12	
Engineering expense	1 80	
		<u>\$37 92</u>

**Washington street*, from Corinth street to West Roxbury Parkway.

Engineering	\$151 73	
Engineering expense	60	
		<u>\$152 33</u>

Washington street, from Dudley street across Columbus avenue. (Work not started.)

Engineering	\$1,135 43	
Engineering expense	23 50	
		<u>\$1,158 93</u>

Webster avenue, from Hanover street to Unity street. (Artificial stone walk constructed.)

Engineering	\$30 68	
Inspection	15 34	
Engineering expense	95	
Amount paid to Joseph A. Singarella:		
3,060 square yards of artificial stone laid @ 27c.	826 20	
		<u>\$873 17</u>

Weston street, from Tremont street to Columbus avenue. (Work not started.)

Engineering	\$11 00	
Engineering expense	1 00	
		<u>\$12 00</u>

West Newton street, from Tremont street to Shawmut avenue. Length, 757 linear feet. Area, 2,885 square yards. Edgestone reset, asphalt concrete pavement laid on macadam foundation and artificial stone sidewalks constructed.

Engineering	\$207 30	
Inspection	176 41	
		<u>\$383 71</u>

* See Washington street special.

<i>Brought forward</i>	\$383 71
Engineering expense	1 90
Advertising	3 75
Expert services	9 90
Edgestone	50 09
Blocks	23 75

	\$473 10
Credit: Bricks, old sidewalk	285 25

\$187 85

Amount paid to Andrews Construction Company, under contract:

Removing trees, bushes, etc.	\$25 00
1,143 tons crushed stone furnished, placed, watered and rolled @ \$3	342 90
19 linear feet circular edgestone set @ 25c.	4 75
1,488 linear feet existing edgestone reset @ 25c.	372 00
18 square yards existing granite block paving relaid, gravel joints, @ \$1.	18 00
26 square yards existing granite block paving relaid in driveways and edgings, gravel base, sand bed, grout joints, @ \$2,	52 00
2,841 square yards asphalt concrete pavement surface layer furnished and laid on macadam foundation @ \$2.40	6,818 40
68 square yards existing brick sidewalks relaid @ \$1	68 00
10,291 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 23c.	2,366 93
2 covers reset @ \$3	6 00
1 course of brick work laid @ 50c.	50

10,074 48

\$10,262 33

STREETS CONSTRUCTED OR IN THE PROCESS OF CONSTRUCTION UNDER CHAPTER 393 OF THE ACTS OF 1906, AND THE COST CHARGED TO THE APPROPRIATION FOR HIGHWAYS, MAKING OF.

Albany street, from Broadway to about 75 feet south of Troy street. Length, 821 feet. Area, 5,340 square yards. Edgestone reset, granite block paving laid, grout joints on a 6-inch concrete base and brick sidewalks relaid on the west side. In connection with this contract work was done in Oak street, Lehigh street and Broadway.

Engineering	\$254 21
Inspection	318 95

Carried forward \$573 16

<i>Brought forward</i>	\$573 16
Engineering expense	22 90
Stone-cutter	55 00
Handling stock	2 00
Edgestone	50 10
Bricks	954 87
Teaming	12 00
Amount paid to Boston Elevated Railway Company for work done and materials fur- nished	696 03

\$2,366 06

Credit: Blocks, old granite	1 20
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\$2,364 86

Amount paid to James Doherty, under contract:

3,704 cubic yards filling furnished @ \$1.65	\$6,111 60
142 cubic yards earth excava- tion @ \$1.25	177 50
290 square yards existing con- crete base excavated and removed @ \$1	290 00
30 cubic yards wall and founda- tion excavated and re- moved @ \$5	150 00
121 linear feet circular edge- stone set @ 48c.	58 08
2,606 linear feet existing edge- stone reset @ 49c.	1,276 94
1,005 cubic yards concrete base furnished and laid @ \$15.25	15,326 25
365 square yards existing gran- ite block paving relaid, gravel joints, @ \$1.50	547 50
2,004 square yards granite block paving furnished and laid, sand bed and grout joints, @ \$5.77	11,563 08
3,857 square yards existing gran- ite block paving taken up, cleaned, piled and relaid, sand bed and grout joints, @ \$2.40	9,256 80
1,189 square yards existing gran- ite block paving taken up, cleaned, piled and re- laid, gravel base, sand bed and grout joints, @ \$2.49	2,960 61
726 square yards brick side- walks laid @ 83c.	602 58
1,274 square yards existing brick sidewalks relaid @ 59c.	751 66
8,000 second-hand sidewalk brick loaded and hauled from Massachusetts avenue lot @ \$4 per M.	32 00
11 covers reset @ \$3	33 00
1 Bradley head catch-basin reset @ \$5	5 00
<i>Carried forward</i>	\$49,142 60

\$2,364 86

<i>Brought forward</i>	\$49,142 60	\$2,364 86
19 courses of brickwork laid @ 50c.	9 50	
61 linear feet wood fence built @ \$2.25	137 25	
1 cubic yard concrete back- ing furnished and placed @ \$26	26 00	
Extra Work — Bar out, clean, pile and relay ex- isting brick block pave- ment on a cement mortar bed with grout joints in Seneca street, from Al- bany street about 150 feet westerly:		
221 square yards existing brick block barred out, cleaned piled and relaid on ce- ment mortar bed, with grout joints, @ \$1.75	386 75	
Extra Work — Remove old posts and timber from line of widening in Al- bany street:		
157 hours' labor @ 70c.	109 90	
Plus 15 per cent on \$109.90, Extra Work — Furnish and lay new wood block pave- ment at intersection of Albany street and Broad- way to meet change of grade:	16 49	
60 square yards wood block pavement furnished and laid @ \$5.70	342 00	
	<hr/>	
	\$50,170 49	
Less amount paid in 1920	11,308 31	
	<hr/>	
		38,862 18
		<hr/>
		\$41,227 04

Alger street, from Dorchester avenue to New York, New Haven & Hartford Railroad. (Work not started.)

Engineering	\$30 67
Engineering expense	30
	<hr/>
	\$30 97

Allenwood street, from Anawan avenue to Pelton road. Length, 507 linear feet. Area, 1,468 square yards. Edgestone set, concrete base laid. (Work unfinished.)

Engineering	\$410 23
Inspection	523 79
Engineering expense	9 30
Advertising	2 07
Templets.	13 41
Edgestone	1,334 62
Amount paid to John T. Shea, Jr., under con- tract:	
Removing trees, bushes, etc.	\$25 00
	<hr/>
<i>Carried forward</i>	825 00
	<hr/>
	\$2,293 42

<i>Brought forward</i>	\$25 00	\$2,293 42
1,072 cubic yards earth excavation @ \$1.25	1,340 00	
6½ cubic yards rock excavation @ \$6	39 00	
163 cubic yards extra excavation @ \$1.50	244 50	
230½ tons crushed stone furnished, placed, watered and rolled, @ \$3	691 50	
90½ linear feet straight edgestone set @ 24c.	216 96	
54 linear feet circular edgestone set @ 25c.	13 50	
45 linear feet existing edgestone reset @ 14c.	6 30	
1,481 square yards concrete base, asphalt binder, sheet asphalt surface layer, furnished and laid (unfinished), @ \$1.15	1,703 15	
6,200 square feet artificial stone foundation furnished and placed @ 1c.	62 00	
8 covers reset @ \$3	24 00	
5 courses of brickwork laid @ 50c.	2 50	
	<hr/>	
	\$4,368 41	
Less 5 per cent retained	218 42	
	<hr/>	
		4,149 99
		<hr/>
		<u>\$6,443 41</u>

Arborway, from Forest Hills street to Morton street. (Work started, no payment made.)

Engineering	\$389 00	
Inspection	405 77	
Engineering expense	8 30	
Advertising	5 81	
	<hr/>	
		<u>\$808 88</u>

Arbutus street, from Blue Hill avenue to Irma street. Length 727 feet. Area, 2,011 square yards. Edgestone set. Topeka roadway laid on 4 inch concrete base and artificial stone sidewalks constructed.

Engineering	\$219 90	
Inspection	309 43	
Engineering expense	1 00	
Templets	29 04	
Edgestone, 30 feet straight and 38 feet circular,	157 80	
Teaming	250 15	
Amount paid to Martino DeMatteo, under contract:		
Removing trees, bushes, etc.	\$100 00	
684 cubic yards earth excavation @ \$1.75	1,197 00	
8 cubic yards rock excavation @ \$1	8 00	
	<hr/>	
<i>Carried forward</i>	\$1,305 00	\$967 32

<i>Brought forward</i>	\$1,305 00	\$967 32
130 cubic yards filling furnished @ \$3	390 00	
6 cubic yards extra excavation @ \$1	6 00	
1,221 linear feet straight edge- stone set @ 35c.	427 35	
38 linear feet circular edge- stone set @ 35c.	13 30	
75 linear feet existing edge- stone reset @ 35c.	26 25	
5 square yards existing gran- ite block paving relaid in edgings, concrete base, sand bed and grout joints, @ \$3	15 00	
2,011 square yards concrete base and Topeka wearing sur- face, furnished and laid, @ \$3.75	7,541 25	
29 square yards bituminous wearing surface, furnished and laid, on macadam foundation, @ \$2.15	62 35	
8,119 square feet artificial stone foundation furnished and placed @ 10c.	811 90	
8,357 square feet artificial stone sidewalks, concrete base and wearing surface, fur- nished and laid, @ 27c.,	2,256 39	
11 covers reset @ \$3	33 00	
2 courses of brickwork laid @ 50c.	1 00	
	<hr/>	
		12,888 79
		<hr/>
		<u>\$13,856 11</u>

Archdale road, from Washington street to South street. Length, 446 feet. Area, 1,312 square yards. Grading, edgestone set and reset, Topeka pavement laid on 4-inch concrete base and artificial stone sidewalks constructed. Gravel sidewalks constructed and bituminous pavement on macadam foundation laid at South street.

Engineering	\$120 10	
Inspection	302 94	
Engineering expense	75	
Edgestone, 821 feet straight, 12 small corners and 148 feet circular	2,040 78	
Amount paid to Martino DeMatteo, under contract:		
691 cubic yards earth excava- tion @ \$1.60	\$1,105 60	
46 cubic yards extra excava- tion @ \$2	92 00	
813 linear feet straight edge- stone set @ 27c.	219 51	
180 linear feet circular edge- stone set @ 30c.	54 00	
119 linear feet existing edge- stone reset @ 30c.	35 70	
	<hr/>	
<i>Carried forward</i>	\$1,506 81	\$2,464 57

<i>Brought forward</i>	\$1,506 81	\$2,464 57
1,684 square yards concrete base and Topeka wearing sur- face, furnished and laid, @ \$3.60	6,062 40	
268 square yards bituminous wearing surface, furnished and laid, on macadam foundation, @ \$2.10	562 80	
5,712 square feet artificial stone foundation furnished and placed @ 10c.	571 20	
4,983 square feet artificial stone sidewalks, concrete base and wearing surface, fur- nished and laid, @ 22c.,	1,096 26	
490 square feet artificial stone driveways, concrete base and wearing surface, fur- nished and laid, @ 50c.,	245 00	
26 covers reset @ \$3.	78 00	
9 courses of brickwork laid @ 50c.	4 50	
155 square yards gravel side- walks placed, shaped, watered and rolled, @ 50c.	77 50	
Extra work — Furnish and place cinder founda- tion under edgestone on northerly side of street:		
37 cubic yards cinder founda- tion furnished and placed @ \$2	74 00	
Extra work — Furnish and place 2-inch plank back of sidewalks on north side as directed:		
550 feet B. M. plank furnished and placed @ \$50,	27 50	
	<hr/>	10,305 97
		<hr/>
		\$12,770 54
<i>Ashland street</i> , from Hyde Park avenue to Wilmot street. (Work not started.)		
Engineering		\$61 36
<i>Babcock street</i> , from Commonwealth avenue to Boston & Albany Railroad. Length, 953 feet. Area, 4,141 square yards. Edgestone set, Topeka pavement laid on 4-inch concrete base and artificial stone sidewalk constructed. A wooden fence was built across the end of the street at the railroad.		
Engineering	\$109 18	
Inspection	199 40	
Engineering expense	3 60	
Edgestone	164 42	
Blocks, recut granite, 177 feet straight	28 80	
Teaming	7 20	
	<hr/>	\$512 60
<i>Carried forward</i>		

<i>Brought forward</i>		\$512 60
Amount paid to Rowe Contracting Company, under contract:		
2,328 cubic yards earth excavation @ \$1.90	\$4,423 20	
1,389 linear feet straight edge-stone set @ 40c.	555 60	
148 linear feet circular edge-stone and corners set @ 45c.	66 60	
460 cubic yards concrete base furnished and laid @ \$12	5,520 00	
49 square yards granite block pavement hauled and laid in brows and dummy of car tracks, sand bed and grout joints, @ \$2.25	110 25	
10 square yards granite block pavement hauled and laid in edgings, sand bed and grout joints, @ \$2.75	27 50	
4,082 square yards Topeka wearing surface furnished and laid @ \$2.10	8,572 20	
14,082 square feet artificial stone foundation furnished and placed @ 2c.	281 64	
12,977 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 25c.	3,244 25	
1,105 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 27c.	298 35	
2 covers reset @ \$3	6 00	
Wood fence furnished, built and painted	150 00	
	<u>\$23,255 59</u>	
Less amount paid in 1920,	<u>16,610 15</u>	
		<u>6,645 44</u>
		<u>\$7,158 04</u>
<i>Balsam street</i> , from Ashton street to Irma street. (Work not started.)		
Engineering	\$97 27	
Engineering expense	3 30	
Advertising	1 97	
		<u>\$102 54</u>

Beech street, from West Roxbury Parkway to Belgrade avenue. Length, 158 feet and extension 541 feet. Area, 700 square yards and extension 2,525 square yards. Grading, edgestone set and reset. Topeka pavement laid on 6-inch concrete base and artificial stone sidewalks constructed. (Unfinished work from 1920.)

Engineering	\$43 20
Inspection	103 55
Edgestone	186 62

\$332 37

Amount paid to Rowe Contracting Company,
under contract:

388 cubic yards earth excavation @ \$1.90 . . .	\$737 20
419 tons crushed stone furnished, placed, watered and rolled, @ \$3 . . .	1,257 00
410 linear feet straight edge-set @ 30c.	123 00
6 linear feet circular edge-stones and corners set @ 30c.	1 80
31 linear feet existing edge-stone reset @ 30c. . . .	9 30
40 square yards existing granite block paving relaid, gravel joints, @ \$1.25 . .	50 00
722 square yards concrete base and Topeka wearing surface furnished and laid @ \$4.20	3,032 40
2,503 square yards bituminous wearing surface, furnished and laid, on macadam foundation, @ \$2.30	5,756 90
2,576 square feet artificial stone foundation furnished and laid @ 8c.	206 08
2,495 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 27c.	673 65
81 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 30c. . .	24 30
7 covers reset @ \$3	21 00
17 courses of brickwork laid @ 50c.	8 50
Extra work — Remove four stumps on Beech street not shown on plan: 4 stumps removed	225 00
	<hr/> \$12,126 13

Less amount paid in 1920

2,961 65

9,164 48

\$9,497 85

Belgrade avenue, from Anawan avenue to Centre street. Length, 1,903 feet. Area, 9,642 square yards. Grading, edgestone set and reset. Topeka pavement laid on 6-inch concrete base with 9-inch brows to car tracks of new granite blocks on 6-inch concrete base, grout joints. Artificial stone sidewalks laid from 100 feet east of Belgrade street across Anawan avenue.

Engineering		\$66 56
Inspection		130 39
Fence built		685 13
Edgestone, 213 feet straight and 2 small corners,		409 23
Blocks, recut		102 00
Teaming		220 00
Amount paid to Boston Elevated Railway Com-		
pany:		
2,300 square yards paving barred		
out and blocks recut @ \$1.41,	\$3,243 00	
2,868 square yards concrete base		
and paving laid @ \$3.84	11,013 12	
		14,256 12
Amount paid to Rowe Contracting Company,		
under contract:		
1,340 cubic yards earth excava-		
tion @ \$1.90	\$2,546 00	
1,897 linear feet straight edge-		
stone set @ 30c.	569 10	
347 linear feet circular edge-		
stone and corners set @		
30c.	104 10	
45 linear feet existing edge-		
stone reset @ 30c.	13 50	
195 square yards granite block		
paving furnished and		
laid in dummy and		
brows of car tracks, con-		
crete base, sand bed and		
grout joints, @ \$8.50	1,657 50	
18 square yards existing gran-		
ite block paving relaid		
in driveways and edg-		
ings, concrete base, sand		
bed, grout joints, @ \$4,	72 00	
4,588 square yards concrete base		
and Topeka wearing sur-		
face, furnished and		
laid, @ \$4.20	19,269 60	
28 square yards bituminous		
wearing surface, fur-		
nished and laid, on ma-		
cadam foundation, @		
\$2.30	64 40	
21,563 square feet artificial stone		
foundation furnished		
and placed @ 8c.	1,725 04	
20,970 square feet artificial stone		
sidewalks, concrete base		
and wearing surface,		
furnished and laid, @		
27c.	5,661 90	
593 square feet artificial stone		
driveways, concrete base		
and wearing surface,		
furnished and laid, @		
30c.	177 90	
6 covers reset @ \$3	18 00	
18 courses of brick work laid		
@ 50c.	9 00	
Carried forward	\$31,888 04	\$15,869 43

<i>Brought forward</i>	\$31,888 04	\$15,869 43
294 linear feet wood fence built @ \$2	588 00	
Extra work — Excavate track area where direct- ed in Belgrade avenue, between Belgrade street and Anawan avenue:		
261 cubic yards excavation @ \$2.50	652 50	
Extra work — Reset edge- stone and relay gutters where necessary, lay brows to street car tracks and lay Topeka pavement on macadam base, from 100 feet east of Belgrade street across Anawan avenue:		
15 cubic yards earth excava- tion @ \$1.90	28 50	
7 tons crushed stone fur- nished, placed, watered and rolled @ \$3	21 00	
10 linear feet circular edge- stone set @ 30c.	3 00	
412 linear feet existing edge- stone reset @ 30c.	123 60	
378 square yards existing gran- ite block paving relaid, gravel joints, @ \$1.25,	472 50	
100 square yards existing gran- ite block paving relaid, gravel base, grout joints, @ \$2	200 00	
2,426 square yards bituminous wearing surface fur- nished and laid on ma- cadam foundation @ \$2.30	5,579 80	
21 square feet artificial stone foundation furnished and placed @ 8c.	1 68	
21 square feet artificial stone sidewalks, concrete base and wearing surface, fur- nished and laid, @ 27c.,	5 67	
Extra work — Remove one stump on Belgrade av- enue, not shown on plan:		
1 stump removed	75 00	
Extra work — Haul recut paving blocks to Centre street from Belgrade avenue:		
16 hours' labor @ 65c.	10 40	
Plus 15 per cent on \$10.40,	1 56	
$\frac{1}{2}$ day, auto truck, @ \$35	17 50	
	<hr/>	
	\$39,668 75	
Less amount paid in 1920,	25,803 62	
	<hr/>	
	13,865 13	
	<hr/>	
	29,734 56	

Boylston street (northerly side), from Tremont street to Charles street. Length, 728 linear feet. Area, 1,115 square yards. Edgestone reset, roadway widened and wood block pavement laid. (Work done in 1920.)

Engineering	\$13 00	
Advertising	1 97	
Expert services	24 80	
Edgestone, 143 feet, special, @ \$2.30	328 90	
Final payment to James Doherty for work done in 1920, under contract	1,486 45	
		<u>\$1,855 12</u>

Brenton street, from Glenway street to Greenwood street. Length, 319 feet. Area, 923 square yards. Edgestone set, bitulithic roadway laid and artificial stone sidewalks constructed.

Engineering	\$105 37	
Inspection	49 85	
Engineering expense	1 95	
Advertising	4 00	
Templets	22 36	
Edgestone, 116 feet straight, 19 feet circular and 2 small corners	284 50	
Expert services	7 42	
		<u>\$475 45</u>
Credit: Bricks, old sidewalk	11 20	
		<u>\$464 25</u>

Amount paid to Warren Brothers Company, under contract:

Removing trees, bushes, etc.	\$50 00	
288 cubic yards earth excavation @ \$1.20	345 60	
106 Linear feet straight edgestone set @ 22c.	23 32	
25 linear feet circular edgestone set @ 22c.	5 50	
510 linear feet existing edgestone reset @ 22c.	112 20	
923 square yards concrete base and bitulithic pavement furnished and laid @ \$3.09	2,852 07	
45 square yards bitulithic pavement furnished and laid on macadam foundation @ \$2.25	101 25	
1,625 square feet artificial stone foundation furnished and placed @ 4c.	65 00	
3,431 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 24c.	823 44	
55 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 35c.	19 25	
		<u>\$4,397 63</u>
Carried forward		<u>\$464 25</u>

<i>Brought forward</i>	\$4,397 63	\$464 25
3 covers reset @ \$3	9 00	
4 cubic yards loam furnished @ \$3.15	12 60	
	<hr/>	4,419 23
		<hr/> <u>\$4,883 48</u>

Broadway, at southeast corner of Washington street. (Work done in 1920.)

Recut blocks	<hr/> <u>\$14 40</u>
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Canterbury street, at the intersection of Walk Hill street. (Unfinished work from 1920.) Length, 279 feet. Area, 1,785 square yards. The street was widened, edgestone set, gravel sidewalk built and the new widened portion built with tar macadam, 6 inches deep.

Engineering	\$53 96
Inspection	2 00
Labor, edgestone resetting	45 12
Labor, macadam surfacing	454 81
Teaming	615 40
Steam roller	279 00
Gravel, 192½ cubic yards	286 58
Lumber	60 07
Crushed stone, 463.75 tons	904 52
Tar binder, 18.71 tons	513 41
Amount paid to Joseph Halloran for removing 7 trees	490 00
	<hr/> <u>\$3,704 87</u>

Castleton street, from South Huntington avenue to Jamaica way. (Work unfinished.)

Engineering	\$64 90
Advertising	2 06
Edgestone, 21 feet straight and 44 feet circular,	156 05
Labor, setting edgestone	16 56
Labor, paving gutters	9 06
Labor, roadway excavating	31 12
Teaming	10 00
	<hr/> <u>\$289 75</u>

Centre street, from South street to Spring street. Length, 6,331 feet. Area, 42,188 square yards. Grading, edgestone set and reset, Topeka pavement laid on 6-inch concrete base with brows to car tracks of new granite blocks on 6-inch concrete base with grout joints. Artificial stone sidewalks constructed. The approach to Centre street beyond Spring street was laid with second-hand block, gravel base, grout joints. Approaches to Spring street laid with bituminous surface on macadam base.

Engineering	\$1,948 22
Inspection	2,248 43
Engineering expense	56 10
Edgestone, 1,035 feet straight, 10 small and 1 large corner, 5 feet circular and 2 special stones	1,979 02
Photographs	40 00
Templets	54 71
Building fence	1,115 77
Teaming	1,070 50
Plank walk	306 16

<i>Carried forward</i>	<hr/> <u>\$8,818 91</u>
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<i>Brought forward</i>		\$8,818 91
Sundries		52 96
Amount paid to Boston Elevated Railway Com- pany:		
9,353 square yards paving barred out and blocks recut @ \$1.41	\$13,187 73	
8,281 square yards concrete base and paving laid @ \$3.84,	31,799 04	
		44,986 77
Amount paid to Rowe Contracting Company, under contract:		
Removing trees, bushes etc.	\$12,020 00	
11,223 cubic yards earth exca- vation @ \$1.90	21,323 70	
79 cubic yards rock excava- tion @ \$7	553 00	
652 cubic yards extra excava- tion @ \$2.50	1,630 00	
327 tons crushed stone fur- nished, placed, wat- ered and rolled, @ \$3	981 00	
7,649 linear feet straight edge- stone set @ 30c.	2,294 70	
939 linear feet circular edge- stone and corners set @ 30c.	281 70	
4,393 linear feet existing edge- stone reset @ 30c.	1,317 90	
3,200 linear feet crushed stone and concrete founda- tion furnished and placed @ 30c.	960 00	
208 square yards existing granite block paving relaid, gravel joints, @ \$1.25	260 00	
862 square yards granite block paving furnished and laid in dummy and brows of car tracks, concrete base, sand bed, grout joints, @ \$8.50	7,327 00	
18 square yards existing granite block paving relaid in driveways and edgings, concrete base sand bed, grout joints, @ \$4	72 00	
225 square yards existing granite block paving relaid, gravel base, grout joints, @ \$2	450 00	
35,967 square yards concrete base and Topeka wear- ing surface furnished and laid @ \$4.20	151,061 40	
32 square yards existing brick sidewalks relaid @ 70c.	22 40	
<i>Carried forward</i>	\$200,554 80	\$53,858 64

<i>Brought forward</i>	\$200,551 80	\$53,858 64
107,300 square feet artificial stone foundation furnished and placed @ 8c.	8,584 00	
102,670 square feet artificial stone sidewalks, con- crete base and wearing surface, furnished and laid, @ 27c.	27,720 90	
3,843 square feet artificial stone driveways, con- crete base and wearing surface, furnished and laid, @ 30c.	1,152 90	
109 covers reset @ \$3	327 00	
266 courses of brickwork laid @ 50c.	133 00	
6.85 cubic yards extra con- crete base furnished and laid @ \$15	102 75	
450 linear feet ground water drain furnished and laid @ \$1	450 00	
Constructing cap and fence	850 00	
Constructing wall and fence	1,900 00	
Extra work — Haul edge- stone from South Yard to Centre street:		
1,596 linear feet edgestone hailed @ 15c.	239 40	
Extra work — Remove reinforced concrete at Billings Field garage:		
22 hours' labor @ 65c.	14 30	
Plus 15 per cent on \$14.30,	2 15	
Extra work — Spread filling from Hastings street:		
9 days' labor @ \$5.20	46 80	
Plus 15 per cent on \$46.80,	7 02	
Extra work — Remove trees as follows:		
One at No. 1162 Centre street.		
One at Elgin street.		
One at Pinkham street.		
One stump at Elgin street.		
One opposite Church street.		
Removing trees and stumps	475 00	
	<hr/>	
	\$247,300 32	
Less amount paid in 1920,	76,595 88	
	<hr/>	
	170,704 44	
	<hr/>	
	<u>\$224,563 08</u>	

Centre street, from Allandale street to South street. For details see under streets charged to Reconstructing and Repairing Streets by Contract. (Unfinished work from 1920.)

Engineering	\$18 50	
Teaming	199 00	
Removing trees	375 00	
Amount paid to Bermudez Company, under contract	1,100 71	
		<u>\$1,693 21</u>

Charles street, from Beacon street to Cambridge street. Length, 1,839 feet. Area, 8,960 square yards. Edgestone reset, wood block pavement laid on 6-inch concrete base. The area between the car tracks was paved with new granite block with asphalt joints on a 6-inch concrete base and artificial stone sidewalks constructed.

Engineering	\$954 36
Inspection	1,147 32
Engineering expense	6 90
Advertising	13 95
Edgestone, 510 feet straight, 128 feet circular,	1,015 40
Blocks, 50,700 large granite	5,713 89
Expert services	361 36

\$9,213 18

Credit: Bricks, old sidewalk

321 20

\$8,891 98

Removing wall and filling in	160 00
Templets	25 76
Teaming	4 00

Amount paid to B. E. Grant, under contract:

370 square yards old concrete base removed @ \$1	\$370 00
494 cubic yards granite, brick and concrete steps, walls and foundation excavated and removed @ \$2	988 00
485 linear feet straight edgestone set @ 20c.	97 00
130 linear feet circular edgestone set @ 20c.	26 00
2,886 linear feet existing edgestone reset @ 18c.	519 48
32 square yards existing granite block pavement relaid, gravel joints, @ \$1,	32 00
1,746 square yards granite block pavement laid, concrete base, sand bed and asphalt joints, @ \$2.75	4,801 50
195 square yards existing granite block paving relaid, gravel base and grout joints, @ \$2	390 00

Carried forward \$7,223 93 \$9,081 74

<i>Brought forward</i>	\$7,223 98	\$9,081 74
6,761 square yards wood block pavement furnished and laid, concrete base, etc., @ \$4.45	30,086 45	
27,274 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 16c., 8 covers reset @ \$3	4,379 84 24 00	
10 courses of brickwork laid @ 50c.	5 00	
	<hr/>	41,719 27
		<hr/> <u>\$50,801 01</u>

Chelsea street, from Foss street to Adams street. Street widened and work unfinished. Continued from 1919 and 1920; 753 feet edgestone reset, 30 square yards block paving relaid.

Engineering	\$862 98	
Inspection	105 85	
Labor, edgestone excavating	131 46	
Labor, edgestone setting	70 50	
Labor, roadway excavating	957 04	
Labor, trimming wall	35 00	
Labor, building fence	18 00	
Labor, brick walks relaid	5 28	
Labor, filling in sidewalks	62 00	
Sand	41 64	
Cement	34 84	
Edgestone	95 87	
Lumber	16 38	
Nails	60	
Teaming	1,010 75	
	<hr/>	\$3,448 19

Chesterton street, from Massachusetts avenue to Allerton street. (Work not started.)

Engineering	\$67 06	
Engineering expense	90	
Advertising	1 97	
	<hr/>	\$69 93

Chestnut Hill avenue, from Commonwealth avenue to Beacon street:

Length, 795 feet. Area, 4,578 square yards. The street was widened, edgestone set and reset, the old roadway was paved with asphalt concrete on the old macadam and the new widened portion on a 6-inch concrete base and artificial stone sidewalks constructed.

A rubble masonry wall was built along the westerly street line.

Engineering	\$1,015 34	
Inspection	637 14	
Engineering expense	39 80	
Advertising	4 35	
Expert services	7 43	
Photographs	60 00	
Edgestone, 1,355 feet straight, 189 feet circular, Blocks	3,073 07 12 39	
Flagging	304 40	
	<hr/>	
<i>Carried forward</i>	\$5,153 92	

<i>Brought forward</i>		\$5,153 92
Amount paid to John J. Lane, under contract:		
Removing trees, bushes, etc.	\$450 00	
2,671 cubic yards earth excavation @ \$1	2,671 00	
1,488 cubic yards rock excavation @ \$3.75	5,580 00	
61 cubic yards extra excavation @ \$1.50	91 50	
119 tons crushed stone furnished, placed, watered and rolled, @ \$3	357 00	
1,355 linear feet straight edge-stone set @ 19c.	257 45	
74 linear feet circular edge-stone set @ 25c.	18 50	
50 linear feet existing edge-stone reset @ 20c.	10 00	
11 square yards existing granite block paving relaid, sand bed, gravel joints, @ 70c.	7 70	
539 square yards granite block paving recut and relaid in dummy and brows, concrete base, sand bed, grout joints, @ \$3.80	2,048 20	
5 square yards existing granite block pavement relaid in edgings, gravel base, sand bed and grout joints, @ \$2	10 00	
1,874 square yards concrete base and asphalt concrete surface layer furnished and laid @ \$3.10,	5,809 40	
2,149 square yards asphalt concrete pavement surface layer, furnished and laid, on macadam foundation, @ \$1.80	3,868 20	
8,063 square feet artificial stone foundation furnished and placed @ 2c.	161 26	
13,858 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 17c.	2,355 86	
173 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 40c.	69 20	
7 covers reset @ \$3	21 00	
15 courses of brickwork laid @ 50c.	7 50	
85 cubic yards loam hauled and placed @ 50c.	59 50	
Constructing rubble wall,	5,500 00	
<i>Carried forward</i>	\$29,353 27	\$5,153 92

<i>Brought forward</i>	\$29,353 27	\$5,153 92
Extra work — Scrape out the old joints of old wall where directed, repoint the same and dress off the top to take a flag coping to make the old wall conform with the new one:		
Scraping out joints, etc.,	200 00	
Extra work — Remove four trees on account of slope back of wall:		
4 trees removed @ \$25 .	100 00	
Extra work — Haul second-hand flagging from Chestnut Hill avenue paving yard to Chestnut Hill avenue:		
132 hours' labor @ 50c. .	66 00	
Plus 15 per cent on \$66,	9 90	
44 hours' double team @ \$1.12½	49 50	
	<hr/>	29,778 67
		<hr/> \$34,932 59

Chilton road, from Weld street 411 feet northwesterly. Length, 411 linear feet. Area, 1,227 square yards. Edgestone set, asphalt concrete pavement laid and artificial stone sidewalks constructed.

Engineering	\$314 30
Inspection	195 70
Engineering expense	2 40
Advertising	4 03
Templets	13 41

Edgestone, 744 feet straight, 58 feet circular and 8 square corners 1,203 70

Amount paid to John T. Shea, Jr., under contract:

599 cubic yard searthe excavation @ \$1.25	\$748 75
5½ cubic yards rock excavation @ \$6	33 00
28 cubic yards extra excavation @ \$1.50	42 00
24 tons crushed stone furnished, placed, watered and rolled, @ \$3	72 00
733 linear feet straight edgestone set @ 24c.	175 92
84 linear feet circular edgestone reset @ 25c.	21 00
1,223 square yards concrete base, asphalt binder, sheet asphalt surface layer, furnished and laid, @ \$2.50,	3,057 50
199 square yards asphalt binder, sheet asphalt surface layer, furnished and laid, on macadam foundation, @ \$1.60	318 40

<i>Carried forward</i>	\$4,468 57	\$1,733 54
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<i>Brought forward</i>	\$4,468 57	\$1,733 54
5,000 square feet artificial stone foundation furnished and placed @ 1c.	50 00	
6 covers reset @ \$3	18 00	
12 courses of brickwork laid @ 50c.	6 00	
	<hr/>	
	\$4,542 57	
Less 5 per cent retained	227 13	
	<hr/>	
		4,315 44
		<hr/>
		\$6,048 98

Clarendon street, from Stuart street to bridge over Boston & Albany Railroad extended and bridge built over railroad tracks. Length, 438 feet. Area, 1,783 square yards. Edgestone set, granite block pavement laid with grout joints on a 6-inch concrete base and artificial stone sidewalks constructed.

Engineering	\$577 51	
Inspection	413 25	
Engineering expense	40 00	
Advertising	3 40	
Expert services	176 21	
Bricks	84 00	
Edgestone, 675 feet straight, 69 feet circular	1,458 95	
Amount paid to John McCourt Company, under contract:		
8,480 linear feet piles furnished and driven @ 90c.	\$7,632 00	
Other materials and work not called for by Item 1, contract price	104,708 00	
Extra work — Removal of brick to permit building foundation	150 00	
Extra work — 972 square yards concrete base @ \$2.50	2,430 00	
Extra work — Reinforced concrete slab	300 00	
	<hr/>	
	\$115,220 00	
Less amount paid in 1920	46,538 01	
	<hr/>	
		68,681 99

Amount paid Gore, Inc., under contract:

384 cubic yards earth excavation @ \$1	\$384 00	
2,119 cubic yards filling furnished and placed @ 20c.	423 80	
20 cubic yards walls and foundation excavated and removed @ \$2	40 00	
673 linear feet straight edgestone set @ 23c.	154 79	
70 linear feet circular edgestone set @ 23c.	16 10	
167 linear feet existing edgestone reset @ 23c.	38 41	
	<hr/>	
<i>Carried forward</i>	\$1,057 10	\$71,435 31

<i>Brought forward</i>	\$1,057 10	\$71,435 31
5 cubic yards extra concrete base furnished and laid @ \$10	50 00	
387 square yards existing granite block paving relaid, sand bed, gravel joints, @ 65c.	251 55	
1,707 square yards granite block pavement furnished and laid, concrete base, sand bed and grout joints, @ \$6.75	11,522 25	
76 square yards granite block pavement hauled and relaid, gravel base, sand bed and grout joints, @ \$1.45	110 20	
8,722 square feet artificial stone foundation furnished and placed @ 6c.	523 32	
8,722 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 17c.	1,482 74	
6 covers reset @ \$3	18 00	
3 courses of brick work laid @ 50c.	1 50	
Building wall and fence	275 00	
56 tons ledge stone furnished @ \$2.50	140 00	
99 linear feet wood fence built @ \$1	99 00	
Extra work — Remove covering of sidewalk areaways at intersection of Clarendon street and Stanhope street and fill the same:		
9 hours, foreman, @ \$1	9 00	
178 hours' labor @ 50c.	89 00	
Plus 15 per cent on \$98	14 70	
	<hr/>	15,643 36
		<hr/> <u>\$87,078 67</u>

Colberg avenue, from Beech street to West Roxbury Parkway. (Work not started.)

Engineering	\$121 26
Engineering expense	1 00
Advertising	1 97
	<hr/>
	<u>\$124 23</u>

Crescent avenue, at southwest corner of Sydney street. Widened and constructed. Edgestone set, gutters paved and roadway resurfaced with asphalt binder on a 6-inch crushed stone foundation. Sand and asphalt bills not received.

Labor, edgestone excavating	\$119 00
Labor, edgestone resetting	63 22
Labor, brick walk relaid	7 00
	<hr/>
<i>Carried forward</i>	\$189 22

<i>Brought forward</i>	\$189 22
Labor, crushed stone sidewalk filled	141 12
Labor, gutter excavating	187 33
Labor, gutter repaving	284 68
Labor, macadam excavating	176 11
Labor, macadam spreading	346 78
Sand	15 53
Cement	90
Bricks	6 00
Lumber	2 42
Crushed stone, 344 tons	633 86
Edgestone	50 92
Steam roller, rolling	121 50
Steam roller, picking	9 00
Teaming	291 00
	<hr/>
	\$2,456 37

Cummington street, from Commonwealth avenue to Boston & Albany Railroad.. Length, 268 feet. Area, 1,056 square yards. Edgestone set, Topeka pavement laid on a 6-inch concrete base and artificial stone sidewalks constructed. A wooden fence was built across the end of the street at the railroad.

Engineering	\$140 77
Inspection	209 62
Engineering expense	8 80
Edgestone	28 50
Blocks	12 00
Asphalt repairs	182 52

Amount paid to Rowe Contracting Company,
under contract:

273 cubic yards earth excavation @ \$1.90	\$518 70
169 linear feet straight edgestone set @ 40c.	67 60
22 linear feet circular edgestone set @ 45c.	9 90
219 linear feet existing edgestone reset @ 40c.	87 60
175 cubic yards concrete base furnished and laid @ \$12,	2,100 00
6 square yards existing granite block paving relaid, gravel joints, @ \$1.50	9 00
27 square yards granite block paving hauled and laid in edgings, sand bed and grout joints, @ \$2.75	74 25
1,023 square yards Topeka wearing surface furnished and laid @ \$2.10	2,148 30
2,323 square feet artificial stone foundation furnished and placed @ 2c.	46 46
2,248 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 25c.	562 00
75 square feet artificial stone driveways, concrete base and wearing surface, fur-	

<i>Carried forward</i>	\$5,623 81	\$582 '21
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<i>Brought forward</i>	\$5,623 81	\$582 21
nished and laid, @ 27c.,	20 25	
Wood fence furnished, built		
and painted	140 00	
	<hr/>	5,784 06
		<hr/> <u>\$6,366 27</u>

Cushman road, from Dustin street, to Glencoe street. Length, 945 linear feet. Area, 2,910 square yards. Sub-graded, edgestone set, sheet asphalt pavement laid on 4-inch concrete base and artificial stone sidewalks constructed:

Engineering		\$128 83
Inspection		178 95
Engineering expense		1 30
Edgestone, 466 feet straight		880 27
Amount paid to John J. Lane, under contract:		
1,670 cubic yards earth excavation @ \$2.25	\$3,757 50	
4 cubic yards rock excavation @ \$12	48 00	
1,709 linear feet straight edgestone set @ 30c.	512 70	
112 linear feet circular edgestone set @ 35c.	39 20	
17 square yards existing granite block paving relaid, gravel joints @ \$1.25	21 25	
13 square yards existing granite block paving relaid, concrete base, sand bed and grout joints, @ \$4.50	58 50	
2,838 square yards concrete base, bituminous concrete binder and asphalt wearing surface, furnished and laid, @ \$4.17,	11,834 46	
42 square yards bituminous wearing surface furnished and laid @ \$2.75,	115 50	
11,313 square feet artificial stone foundation furnished and placed @ 8c.	905 04	
10,474 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 28c.,	2,932 72	
307 square feet artificial stone drive-ways, concrete base and wearing surface, furnished and laid, @ 35c.	107 45	
16 covers reset @ \$3	48 00	
Extra work—Construct entrance not shown on plan:		
17 hours stonemason, @ \$1.12½	19 13	
6 hours, edgestone setter, @ \$1.12½	6 75	
	<hr/>	
<i>Carried forward</i>	\$20,406 20	\$1,189 35

<i>Brought forward</i>	\$20,406 20	\$1,189 35	
12 hours' labor @ \$1 $\frac{1}{4}$	9 75		
Plus 15 per cent on \$35.63,	5 34		
3 hours, double team, @ \$1.50	4 50		
	<u>\$20,425 79</u>		
Less amount paid in 1920,	12,066 93		
		8,358 86	
			<u>\$9,548 21</u>
<i>D street</i> , from Claflin street to Fargo street. (Work not started.)			
Engineering		\$149 58	
Engineering expense		3 25	
Advertising		1 97	
			<u>\$154 80</u>
<i>East Fourth street</i> , at northeast corner of K street. (Work done in 1920.)			
Sand		\$7 33	
Cement		70 20	
Blocks		188 00	
			<u>\$265 53</u>
<i>Easton street</i> , from North Harvard street to Mansfield street. Length, 974 linear feet. Area, 2,924 square yards. Edgestone set, sheet asphalt pavement laid and artificial stone sidewalks constructed. (Work done in 1920.)			
Engineering expense		\$0 30	
Final payment made to John J. Lane for work done in 1920 under contract		3,220 93	
			<u>\$3,221 23</u>
<i>Elder street</i> , from Columbia road to Humphreys street. Length, 847 linear feet. Area, 2,484 square yards. Edgestone set, topeka pavement laid and artificial stone sidewalks constructed. (Work done in 1919 and 1920.)			
Edgestone, 109 feet straight		\$232 72	
Final payment to Central Construction Company, for work done in 1920, under contract,		2,333 65	
			<u>2,566 37</u>
<i>Eliot street</i> , from Warrenton street to Broadway. (Work not started.)			
Advertising			<u>\$1 97</u>
<i>Elmhurst street</i> , from Norfolk street to Southern avenue. (Work not started.)			
Engineering		\$75 19	
Engineering expense		1 30	
Advertising		1 97	
			<u>78 46</u>
<i>Falkland terrace</i> , from Hobart street to Brooksdale road. (Work done in 1920.)			
Engineering			<u>\$0 30</u>
<i>Fargo street</i> , from B street to C street. Length, 533 linear feet. Area, 1,660 square yards. Sub-grading, edgestone reset, roadway repaved with recut granite blocks on a 6-inch concrete base, grout joints.			

Engineering	\$214 03
Inspection	301 68
Engineering expense	11 15
Labor, handling stock	5 00
Labor, stonecutter	10 00
Edgestone, 72 feet, 7 inches circular	193 07
Bricks, 21,200 sidewalk	818 00
Teaming	12 00

Amount paid to B. E. Grant Company, under contract:

37 linear feet circular edge-stone and corners set @ 50c.	\$18 50	
875 linear feet existing edge-stone reset @ 30c.	262 50	
365 cubic yards concrete base furnished and laid @ \$12,	4,380 00	
454 square yards existing granite block paving relaid, gravel joints, @ \$1	454 00	
55 square yards granite block paving recut, hauled and laid, sand bed and grout joints, @ \$2.60	143 00	
2,102 square yards existing granite block paving recut and relaid, sand bed and grout joints, @ \$2.35	4,939 70	
213 square yards existing granite block paving relaid, on existing concrete base, sand bed and grout joints, @ \$2.50	532 50	
930 square yards existing granite block paving relaid, gravel base, sand bed and grout joints, @ \$2.50	2,325 00	
438 square yards brick sidewalks hauled and laid @ 75c.	328 50	
36 square yards existing brick sidewalks relaid @ 75c.	27 00	
9 covers reset @ \$3	27 00	
1 Bradley-head catch-basin reset @ \$5	5 00	
9 courses of brickwork laid @ 50c.	4 50	
	<hr/>	13,447 20
		<hr/> <u>\$15,012 13</u>

Farquhar street, from Selwyn street to Centre street. Length, 938 linear feet. Area, 2,710 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed. (Work done in 1920.)

Engineering	\$12 00
Amount paid to Martino DeMatteo for work done in 1920, under contract	2,627 25
	<hr/>
	\$2,639 25
Credit: Edgestone	18 11
	<hr/> <u>\$2,621 14</u>

Freeport street, from Pope's Hill street, southerly. (Work not started.)

Advertising	<u>\$1 97</u>
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Glenville avenue, from Greylock road to Allston street. Length, 1,009 linear feet. Area, 3,095 square yards. Edgestone set and reset, sheet asphalt pavement laid and artificial stone sidewalks constructed. (Work done in 1920.)

Engineering expense	\$0 30	
Final payment to John J. Lane, for work done in 1920, under contract	2,947 79	
		<u>\$2,948 09</u>

Grosvenor place, from Cliff street southwesterly, southeasterly and southwesterly. Length, 281 linear feet. Area, 380 square yards. Edgestone set, granite block pavement laid, retaining wall and fence constructed and artificial stone sidewalks constructed. (Work done in 1920.)

Engineering	\$3 00	
Engineering expense	60	
Final payment to Joseph A. Singarella, for work done in 1920, under contract	853 94	
		<u>\$857 54</u>

Halifax street, from South Huntington avenue to Pond View avenue. Length, 970 linear feet. Area, 2,883 square yards. Edgestone set asphalt concrete roadway laid on 4-inch concrete base and artificial stone sidewalks constructed.

Engineering	\$240 71
Inspection	218 57
Engineering expense	1 25
Advertising	3 50
Expert services	7 42
Templets	31 54

Edgestone, 1,060 feet straight, 48 feet circular and 2 small corners 2,146 30

Amount paid to M. DeMatteo, under contract:

Removing trees, bushes, etc.	\$10 00
982 cubic yards earth excavation @ \$1	982 00
20 cubic yards extra excavation @ \$1	20 00
1,057 linear feet straight edgestone set @ 25c.	264 25
95 linear feet circular edgestone set @ 25c.	23 75
5 linear feet existing edgestone reset @ 25c	1 25
7 square yards existing granite block pavement relaid, concrete base, sand bed and grout joints, @ \$2.75,	19 25
2,883 square yards concrete base and asphalt concrete surface layer furnished and laid @ \$2.95	8,504 85
2 square yards asphalt concrete pavement surface layer furnished and laid, on macadam foundation, @ \$2	4 00

<i>Carried forward</i>	\$9,829 35	<u>\$2,649 29</u>
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<i>Brought forward</i>	\$9,829 35	\$2,649 29
5,048 square feet artificial stone foundation furnished and placed @ 10c	504 80	
6,794 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 20c.,	1,358 80	
64 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ \$1	64 00	
10 covers reset, @ \$3	30 00	
2 courses of brick work laid @ 50c.	1 00	
Extra work — Omit the construction of artificial stone sidewalks for tree pits and substitute frame openings in the artificial stone sidewalks for tree pits, where directed:		
22 tree pits framed @ \$1	22 00	
	<hr/>	11,809 95
		<hr/> <u>\$14,459 24</u>
<i>Hamlin street</i> , from East Eighth street to Columbia road. (Work done in 1920.)		
Engineering expense		<u>\$0 30</u>
<i>Harvard street</i> , from Fabyan street to beyond Brookview street. (Work done in 1919 and 1920.)		
Payment to Rowe Contracting Company, for work done, under contract in 1920		<u>\$371 15</u>
<i>Hastings street</i> , from Centre street to Corey street. (Work not started.)		
Engineering	\$86 23	
Engineering expense	1 00	
Advertising	9 66	
	<hr/>	<u>\$96 89</u>
<i>Hyde Park avenue</i> , from Metropolitan avenue to River street. Length, 5,454 linear feet. Area, 30,548 square yards. Edgestone set and reset, recut granite blocks laid on 6-inch concrete base in car tracks, grout joints, Topeka pavement laid on 6-inch concrete base. (Unfinished work from 1920.)		
Engineering	\$210 72	
Inspection	598 18	
Engineering expense	46 85	
Recutting blocks	33 60	
Edgestone, 100 feet straight	120 29	
Blocks, 6,000 recut granite	360 00	
Teaming	113 41	
Amount paid to Martino DeMatteo, under contract:		
Removing trees, bushes, etc.	\$2,500 00	
10,363 cubic yards earth excavation @ \$1.25	12,953 75	
	<hr/>	
<i>Carried forward</i>	\$15,453 75	\$1,483 05

<i>Brought forward</i>	\$15,453 75	\$1,483 05
236 cubic yards rock excavation @ \$4	944 00	
4 tons crushed stone furnished, placed, watered and rolled, @ \$3	12 00	
298 linear feet corners hauled and set @ 35c. . . .	104 30	
851 linear feet circular edge-stone set @ 25c. . . .	212 75	
3,253 linear feet existing edge-stone reset @ 25c. . . .	813 25	
853 square yards granite block paving recut, hauled and laid, concrete base, sand bed, grout joints (unfinished), @ \$3.27 . .	2,789 31	
40 square yards existing granite block paving relaid, in driveways and edgings, concrete base, sand bed and grout joints, @ \$2.75	110 00	
25,938 square yards concrete base and Topeka wearing surface furnished and laid @ \$2.95	76,517 10	
698 square yards bituminous wearing surface furnished and laid, on macadam foundation, @ \$1.90	1,326 20	
93,492 square feet artificial stone foundation furnished and placed @ 2c. . . .	1,869 84	
85,540 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 20c.,	17,108 00	
7,952 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 30c. . . .	2,385 60	
128 covers reset @ \$3	384 00	
2 Bradley head catch-basins reset @ \$5	10 00	
145 courses of brickwork laid @ 50c. . . .	72 50	
Extra work — Omit the hauling of straight edgestone from the South End Yard, Albany street. A deduction of nine (9) cents per linear foot is to be made from the price bid for hauling and setting straight edgestone:		
5,917 linear feet straight edgestone set, but not hauled, @ 26	1,538 42	
<i>Carried forward</i>	\$121,651 02	\$1,483 05

<i>Brought forward</i>	\$121,651 02	\$1,483 05
Extra work — Remove two (2) trees and one (1) stump and trim one (1) tree:		
Removing two trees, etc.	330 00	
Extra work — Remove edgestone already set and reset same in new location on east side, south of Arlington street:		
5 hours, foreman, @ 94c.	4 70	
12 hours, edgestone setter, @ \$1.13	13 56	
83½ hours' labor @ 70c.	58 45	
Plus 15 per cent on \$76.71	11 51	
5½ hours, auto truck, @ \$4.38,	24 09	
5½ hours, double team, @ \$1.25	6 88	
Extra work — Construct additional driveways as directed and reset edgestone due to settlement:		
7 days, edgestone setter, @ \$9	63 00	
23½ days' labor @ \$5.60	129 50	
Plus 15 per cent on \$192.50	28 88	
2 days, double team, @ \$10,	20 00	
4 bags cement @ \$1.50	6 00	
Extra work — Grade approaches as directed:		
¼ day, foreman, @ \$7.50	1 88	
4¼ days, foreman, @ \$6.67	28 35	
15½ days' labor @ \$5.60	87 50	
41¼ days' labor @ \$3.20	133 60	
Plus 15 per cent on \$251.33	37 70	
1¼ days, double team, @ \$10,	12 50	
5¾ days, double team, @ \$8,	46 00	
½ day, steam roller, @ \$18	9 00	
½ day, auto truck, @ \$35	17 50	
Extra work — Place extra framing and construct artificial stone blocks in eighty-four (84) openings left by removal of trolley and corporation poles:		
Constructing artificial stone blocks, etc.	312 00	
<i>Carried forward</i>	\$123,033 62	\$1,483 05

<i>Brought forward</i>	\$123,033 62	\$1,483 05
Less amount paid in 1919 and 1920	\$62,163 13	
Less amount retained	7,080 71	
	<u>69,243 84</u>	53,789 78
Amount paid to John McCourt Company, under contract:		
3,474 square yards existing granite block paving recut and relaid (in car tracks), concrete base, sand bed and grout joints, @ \$4.48	\$15,563 52	
2,317 square yards granite blocks recut (at Massachusetts avenue lot) hauled and laid in car tracks, concrete base, sand bed, grout joints, @ \$4.73	10,959 41	
Extra work — Reset manhole covers as directed:		
5 covers reset @ \$3	15 00	
8 courses of brickwork laid @ 50c.	4 00	
Extra work — Replace concrete base removed by Eastern Massachusetts Street Railway Company:		
18½ square yards concrete base furnished and laid @ \$2.50	46 67	
	<u>\$26,588 60</u>	
Less amount paid in 1920	22,544 49	
		4,044 11
Amount paid to Gore, Inc., 2,214 cubic yards excavation @ \$2	4,428 00	
	<u>\$63,744 94</u>	
<i>Imrie road, from Cambridge street to Allston street. Length, 620 linear feet. Area, 1,276 square yards. Subgraded, edgestone set, asphalt concrete pavement laid on 4-inch concrete base and artificial stone sidewalks constructed.</i>		
Engineering	\$230 93	
Inspection	162 31	
Engineering expense	2 30	
Advertising	3 20	
Templets.	30 12	
Edgestone, 893 feet straight, 26 feet straight, 6 specials and 11 small corners	1,939 45	
	<u>\$2,368 31</u>	
<i>Carried forward</i>		

<i>Brought forward</i>	\$2,368 31
Expert services	7 42
Amount paid to Charles M. Callahan, under contract:	
654 cubic yards earth excavation @ 75c.	\$490 50
2½ cubic yards rock excavation @ \$3	7 50
3 cubic yards excavation below subgrade @ \$1	3 00
960 linear feet straight edge-stone set @ 20c.	192 00
98 linear feet circular edge-stone and corners set @ 21c.	20 58
25 linear feet existing edge-stone reset @ 20c.	5 00
510 linear feet crushed stone and concrete foundation furnished and placed @ 25c.	127 50
6 square yards existing granite block paving relaid, concrete base, sand bed and grout joints, @ \$2.50	15 00
1,266 square yards concrete base and asphalt concrete surface layer furnished and laid @ \$3	3,798 00
4 square yards asphalt concrete pavement furnished and laid on macadam foundation @ \$2	8 00
4,960 square feet artificial stone foundation furnished and placed @ 4c.	198 40
4,700 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 21c.	987 00
260 square feet artificial stone driveways, concrete base and wearing surface furnished and laid, @ 24c.	62 40
8 covers reset @ \$3	24 00
Extra work — Furnish stonecutter to cut straight edgestone to set on curve and haul surplus new straight edgestone to Brighton Paving Yard:	
12 hours' labor @ 40c.	4 80
Plus 15 per cent on \$4.80	72
4 hours, double team, @ \$1	4 00
	<hr/>
	5,948 40
	<hr/>
	<u>\$8,324 13</u>
<i>Kenton road</i> , from Washington street, 844 feet easterly. (Work done in 1919.)	
Final payment to Rowe Contracting Company for work done in 1919, under contract	<u>\$464 83</u>

Kilmarnock street, from Boylston street to Queensberry street. (Work not started.)

Engineering	\$27 22	
Engineering expense	1 00	
		<u>\$28 22</u>

Lawnwood place, from Main street northeasterly. (Work not started.)

Engineering	\$77 27	
Engineering expense	1 75	
Advertising	1 97	
		<u>\$80 99</u>

Liberty square, from Oliver street to Batterymarch street. (Work not started.)

Advertising	\$1 97	
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Marie street, from Mt. Ida road to Percival street. (Work not started.)

Engineering	\$69 47	
Engineering expense	2 30	
Advertising	1 97	
		<u>\$73 74</u>

Melton road, from Wallingford road to Colonial road. Length, 455 linear feet. Area, 2,143 square yards. Subgraded, edgestone set, asphalt concrete pavement laid on 4-inch concrete base and artificial stone sidewalks constructed, and the loam spaces graded and seeded.

Engineering	\$505 06	
Inspection	241 57	
Engineering expense	17 25	
Advertising	3 20	
Templets	23 56	
Expert services	7 42	
Edgestone, 584 feet straight, 211 feet circular and 10 small corners	1,745 37	

Amount paid to Charles M. Callahan, under contract:

Removing trees, bushes, etc.	\$10 00	
866 cubic yards earth excavation @ 75c.	649 50	
4½ cubic yards rock excavation @ \$3	13 50	
133 cubic yards extra excavation below subgrade @ \$1	133 00	
47½ tons crushed stone furnished, placed, watered and rolled @ \$2.50	118 75	
539 linear feet straight edgestone set @ 20c.	107 80	
245 linear feet circular edgestone set @ 21c.	51 45	
158 linear feet existing edgestone reset @ 20c.	31 60	
361 linear feet crushed stone and concrete foundation furnished and placed @ 25c.	90 25	

<i>Carried forward</i>	\$1,205 85	\$2,543 43
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<i>Brought forward</i>	\$1,205 85	\$2,543 43
7 square yards granite block paving hauled and laid, concrete base, sand bed and grout joints, @ \$3 .	21 00	
1,905 square yards concrete base and asphalt concrete surface layer furnished and laid @ \$3	5,715 00	
231 square yards asphalt concrete pavement surface layer furnished and laid on macadam foundation @ \$2	462 00	
3,656 square feet artificial stone foundation furnished and placed @ 4c.	146 24	
3,027 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 21c. .	635 67	
629 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 24c. .	150 96	
8 covers reset @ \$3	24 00	
4 courses of brickwork laid @ 50c.	2 00	
368 square yards loam space graded and seeded @ 25c. .	92 00	
Extra work — Ram, bar and puddle trenches where directed:		
14 hours, foreman, @ 87½c. .	12 25	
100 hours' labor @ 40c.	40 00	
Plus 15 per cent on \$52.25,	7 84	
Extra work — Furnish stonecutter to cut straight edgestone to set on curve and haul surplus new straight edgestone to Brighton Paving Yard:		
28 hours, stonecutter, @ \$1	28 00	
24 hours' labor @ 40c.	9 60	
Plus 15 per cent on \$37.60,	5 64	
	<hr/>	8,558 05
		<hr/> <u>\$11,101 48</u>
<i>Metcalfe street</i> , from Dudley avenue to Penfield street. (Work not started.)		
Engineering	\$108 47	
Engineering expense	1 80	
Advertising	1 97	
	<hr/>	<u>\$112 24</u>
<i>Mt. Ida road</i> , from Robinson street to 234 feet south of Marie street. (Work done in 1919.)		
Engineering	\$3 00	
Engineering expense	60	
	<hr/>	<u>3 60</u>

Morton street, from Forest Hills avenue easterly for 1,200 feet. (Work not started.)

Engineering	\$594 69	
Engineering expense	10	
Advertising	7 78	
		<u>\$602 57</u>

McCraw street, from Belgrade avenue to West Roxbury Branch Railroad. Length, 131 linear feet. Area, 380 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed (Work done in 1920.)

Edgestone, 110 feet straight	\$187 00	
Final payment to Martino DeMatteo for work done in 1920, under contract	288 39	
		<u>\$475 39</u>

Oriole street, from Bellevue street to Enmons road. Length, 426 linear feet. Area, 1,237 square yards. Edgestone set, asphalt concrete pavement laid on 4-inch concrete base and artificial stone sidewalks constructed.

Engineering	\$130 42	
Inspection	69 02	
Engineering expense	2 40	
Advertising	3 50	
Expert services	7 42	
Edgestone, 841 feet straight, 38 feet circular and 4 small corners	1,722 39	

Amount paid to M. DeMatteo, under contract:

Removing trees, bushes, etc.	\$5 00	
438 cubic yards earth excavation @ \$1	438 00	
3 cubic yards rock excavation @ \$5	15 00	
11 cubic yards extra excavation @ \$1	11 00	
833 linear feet straight edgestone set @ 25c.	208 25	
51 linear feet circular edgestone set @ 25c.	12 75	
6 square yards granite block pavement hauled and laid, concrete base, sand bed and grout joints, @ \$3	18 00	
1,237 square yards concrete base and asphalt concrete surface layer furnished and laid @ \$2.95	3,649 15	
54 square yards asphalt concrete pavement surface layer furnished and laid on macadam foundation @ \$2	108 00	
3,637 square feet artificial stone foundation furnished and placed @ 10c.	363 70	
3,514 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid, @ 20c.	702 80	
		<u>\$5,531 65</u>
		<u>\$1,935 15</u>

Carried forward \$5,531 65 \$1,935 15

<i>Brought forward</i>	\$5,531 65	\$1,935 15
123 square feet artificial stone driveways, concrete base and wearing surface fur- nished and laid, @ \$1	123 00	
5 covers reset @ \$3	15 00	
4 courses of brickwork laid @ 50c.	2 00	
Extra work — Remove cinders already placed and omit the construc- tion of artificial stone sidewalks and substitute loam space where di- rected:		
158 square yards loam fur- nished and placed @ 90c.	142 20	
16 hours' labor @ 40c.	6 40	
4 hours, foreman, @ 75c.	3 00	
Plus 15 per cent on \$9.40,	1 41	
4 hours, double team, @ \$1,	4 00	
		5,828 66
		<u>\$7,763 81</u>

Parkwood terrace, from Parkton road to Jamaica way. (Work not started.)

Engineering	\$136 80	
Engineering expense	2 00	
Advertising	4 03	
Edgestone, 50 feet circular	132 11	
		<u>274 94</u>

Pontiac street, from Tremont street to Hillside street. Length, 936 linear feet. Area, 2,782 square yards. Graded, edgestone set, asphalt concrete pavement laid on 4-inch concrete base and artificial stone sidewalks constructed.

Engineering	\$279 25	
Inspection	203 23	
Engineering expense	1 80	
Advertising	6 75	
Expert services	7 43	
Templets.	38 22	
Edgestone, 1,751 feet straight, 46 circu- lar and 8 small corners	3,496 71	
Blocks	72 00	

Amount paid to John McCourt Company,
under contract:

Removing trees, bushes, etc.	\$5 00	
611 cubic yards earth exca- vation @ \$1.25	763 75	
144 cubic yards rock excava- tion @ \$5	720 00	
1,743 linear feet straight edge- stone set @ 25c.	435 75	
66 linear feet circular edge- stone set @ 35c.	23 10	
52 linear feet existing edge- stone reset @ 35c.	18 20	
		<u>\$4,105 39</u>
<i>Carried forward</i>	\$1,965 80	

<i>Brought forward</i>	\$1,965 80	\$4,105 39
33 square yards granite block paving hauled and laid, concrete base, sand bed and grout joints, @ \$3.50	115 50	
3 square yards existing granite block paving relaid in driveways and edgings, concrete base sand bed and grout joints, @ \$3.50	10 50	
2,743 square yards concrete base and asphalt concrete surface layer furnished and laid @ \$3.10,	8,503 30	
3 square yards asphalt concrete pavement surface layer furnished and laid on macadam foundation @ \$2.60	7 80	
41 square yards existing brick sidewalks relaid @ 50c.,	20 50	
10,327 square feet artificial stone foundation furnished and placed @ 4c.	413 08	
10,327 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 21c	2,168 67	
9 covers reset @ \$3	27 00	
Extra work — Lower three (3) areaways to grade at the easterly corner of Pontiac and Tremont streets, building numbered 1542 Tremont street.		
12 hours, mason @ \$1	12 00	
12 hours, tender @ 75c.	9 00	
Plus 15 per cent on \$21	3 15	
4 bags cement @ 80c.	3 20	
300 brick @ \$30 per M	9 00	
1 cubic yard sand @ \$2	2 00	
	<hr/>	
	13,270 50	
	<hr/>	
		<u>17,375 89</u>

Pond View avenue, from Perkins street to Moraine street. (Work not started.)

Engineering	\$89 44
Engineering expense	1 80
Advertising	1 97
	<hr/>
	<u>\$93 21</u>

Public Alley No. 710, from East Brookline street to East Newton street. Length, 372 linear feet. Area, 553 square yards. Edgestone set, granite block pavement laid, artificial stone sidewalks and concrete retaining wall constructed. (Work done in 1920.)

Recut blocks	\$210 44
	<hr/>
<i>Carried forward</i>	\$210 44

Brought forward	\$210 44	
Sand	66 00	
Final payment made to John Landis for work done in 1920, under contract	707 11	
	<hr/>	\$983 55

Public Alley No. 818, from St. Stephen street about 690 feet westerly.
Length, 693 linear feet. Area, 616 square yards. Edgestone set,
granite block pavement laid, artificial stone sidewalks and concrete
retaining walls constructed. (Work done in 1920.)

Recut blocks	\$256 56	
Teaming	256 78	
Final payment made to John Landis for work done in 1920, under contract	1,093 74	
	<hr/>	\$1,607 08

Public Alley No. 909, from Massachusetts avenue to Hemenway street.
Length, 379 linear feet. Area, 414 square yards. Edgestone set, granite
block pavement laid on 6-inch concrete base, artificial stone sidewalks
constructed and concrete wall constructed.

Engineering	\$319 40	
Inspection	364 33	
Engineering expense	15 70	
Blocks, 18,100 recut granite	1,086 00	
Bricks	7 50	
Edgestone, 343 feet 5 inches straight, 2 special stones	728 84	

Amount paid to DeStefano Brothers, under contract:

Removing trees, bushes, etc.,	\$10 00	
165 cubic yards earth excavation		
@ \$2.50	412 50	
328 linear feet straight edgestone set @ 50c.	164 00	
16 linear feet straight edgestone set in mortar @ 70c.	11 20	
13 linear feet circular edgestone set @ \$1	13 00	
53 linear feet existing edgestone reset @ 75c.	39 75	
391 linear feet concrete backing for edgestone furnished and placed @ 40c.	156 40	
9 square yards existing granite block paving relaid, gravel joints, @ \$1.50	13 50	
414 square yards granite block paving hauled and laid, concrete base, sand bed and grout joints, @ \$4.40	1,821 60	
10 square yards brick sidewalks hauled and laid @ \$1	10 00	
39 square yards existing brick sidewalks relaid at 75c.	29 25	
132 square feet artificial stone sidewalks, concrete base and wearing surface, fur- nished and laid, @ 40c.	52 80	
3 covers reset @ \$3	9 00	
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<i>Carried forward</i>	\$2,743 00	\$2,521 77
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<i>Brought forward</i>	\$2,743 00	\$2,521 77
42 ⁶ / ₁₀ cubic yards concrete wall constructed @ \$17	724 20	
Extra work — Omit the set- ting of edgestone in mortar and concrete backing for same and substitute the furnishing and building of concrete wall to finished edgestone grade where directed	588 00	
	<hr/>	4,055 20
		<u>\$6,576 97</u>
<i>Ruxton road, from Ridge road to Rugby road. (Work not started.)</i>		
Engineering		\$54 00
Engineering expense		1 00
Advertising		1 97
		<hr/>
		<u>\$56 97</u>
<i>South street, from Centre street about 270 feet easterly. Length, 309 linear feet. Area, 1,164 square yards. Edgestone reset, filling, sheet asphalt pavement laid and artificial stone sidewalks constructed.</i>		
Engineering		\$47 09
Inspection		53 68
Engineering expense		10 75
Amount paid to the Bermudez Company, under contract:		
Removing trees, bushes, etc.	\$1,500 00	
1,613 cubic yards gravel filling furnished @ \$2.50	4,032 50	
310 tons crushed stone fur- nished, placed, watered and rolled, @ \$4	1,240 00	
6 linear feet straight edge- stone set @ 45c.	2 70	
616 linear feet existing edge- stone reset @ 40c.	246 40	
25 square yards existing gran- ite block paving relaid, gravel joints, @ \$1.50	37 50	
1,164 square yards bituminous concrete binder and as- phalt wearing surface, fur- nished and laid, on mac- adam foundation, @ \$2.89	3,363 96	
4,613 square feet artificial stone foundation furnished and placed @ 12c.	553 56	
4,613 square feet artificial stone sidewalks, concrete base and wearing surface, fur- nished and laid, @ 35c.	1,614 55	
263.6 linear feet wood fence built @ \$2.25	593 10	
	<hr/>	\$13,184 27
Less amount paid in 1920	7,674 63	
	<hr/>	5,509 64
Done in connection with Centre street,		<u>\$5,621 16</u>

Stanhope street, from Morgan street to Trinity place. Length, 654 linear feet. Area, 2,005 square yards. Edgestone reset, granite block pavement laid on 6-inch concrete base, grout joints, near Morgan street, the roadway was paved with second-hand granite blocks, grout joints on gravel base. Artificial stone sidewalks constructed.

Engineering	\$267 93
Inspection	275 25
Engineering expense	3 35
Advertising	3 40
Expert services	7 43
Edgestone, 41 feet straight, 8 feet, 9 inches circular	100 92
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	\$658 28
Credit: Bricks, old sidewalk	41 30
	<hr/>
	\$616 98

Amount paid to Gore, Inc., under contract:

416 cubic yards earth excavation @ \$1	\$416 00	
1,153 cubic yards filling furnished and placed @ 20c.	230 60	
37 linear feet straight edge-stone set @ 23c.	8 51	
10 linear feet circular edge-stone set @ 23c.	2 30	
854 linear feet existing edge-stone reset @ 23c.	196 42	
350 linear feet edgestone hauled, stored and reset @ 20c.	70 00	
176 square yards existing granite block paving relaid, sand bed, gravel joints, @ 65c.	114 40	
1,196 square yards granite block paving furnished and laid, concrete base, sand bed and grout joints, @ \$6.75,	8,073 00	
767 square yards granite block paving hauled and laid, gravel base, sand bed and grout joints, @ \$1.45	1,112 15	
42 square yards brick block pavement hauled and laid, sand bed, grout joints, @ \$1.15	48 30	
133 square yards, existing brick sidewalks relaid @ 40c.	53 20	
4,219 square feet artificial stone foundation furnished and placed @ 6c.	253 14	
4,173 square feet artificial stone sidewalks, concrete base and wearing surface, furnished and laid, @ 17c.	709 41	
46 square feet artificial stone driveways, concrete base and wearing surface, furnished and laid, @ 19c.	8 74	
	<hr/>	
<i>Carried forward</i>	\$11,296 17	\$616 98

<i>Brought forward</i>	\$11,296 17	\$616 98
14 covers reset @ \$3.	42 00	
2 Bradley head catch-basins reset @ \$5.	10 00	
12 courses of brickwork laid @ 50c.	6 00	
28 linear feet wood fence built @ \$1	28 00	
	<hr/>	11,382 17
		<hr/> <u>\$11,999 15</u>

Stuart street, from Clarendon street to Trinity place. Length, 268 linear feet. Area, 1,371 square yards. Subgraded, edgestone set, bitu- lithic pavement laid and artificial stone sidewalks constructed.

Engineering	\$17 00
Advertising	1 97

Amount paid to Warren Brothers Company,
under contract:

290 cubic yards earth excava- tion @ \$3	\$870 00	
119.5 cubic yards gravel filling furnished @ \$2.50	298 75	
20 cubic yards granite, brick and concrete walls and foundation, excavated and removed, @ \$5	100 00	
380 linear feet straight edge- stone set @ 45c.	171 00	
51 linear feet circular edge- stone set @ 45c.	22 95	
280 linear feet existing edge- stone reset @ 45c.	126 00	
11 cubic yards extra concrete base furnished and laid in Trinity place @ \$12	132 00	
330 square yards existing gran- ite block paving relaid, gravel joints, @ \$1	330 00	
1,200 square yards concrete base and bitulithic wearing surface furnished and laid @ \$4.38	5,256 00	
171 square yards bituminous wearing surface furnished and laid in Trinity place, @ \$2.29	391 59	
109 square yards existing brick sidewalks relaid @ \$1	109 00	
5,191 square feet artificial stone foundation furnished and placed @ 12c.	622 92	
5,191 square feet artificial stone sidewalks, concrete base and wearing surface fur- nished and laid @ 29c.	1,505 39	
6 covers reset @ \$3.	18 00	
2 courses of brickwork laid @ 50c.	1 00	
	<hr/>	
<i>Carried forward</i>	\$9,954 60	\$18 97

<i>Brought forward</i>	\$9,954 60	\$18 97
Extra work — Load and deliver second-hand granite paving blocks from Massachusetts avenue lot to Stuart street:		
72 hours' labor @ 75c.	54 00	
Plus 15 per cent on \$54	8 10	
2 days' auto truck @ \$35	70 00	
Extra work—Grade gravel sidewalks where directed:		
556 square yards gravel sidewalks graded @ 35c.	194 60	
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	\$10,281 30	
Less amount paid in 1920	8,425 71	
	<hr/>	
	1,855 59	
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		\$1,874 56

Thorndike street, from Commonwealth avenue to Brookline line. Length, 144 linear feet. Area, 616 square yards. Subgraded, edgestone set, asphalt concrete pavement laid on 4-inch concrete base and artificial stone sidewalks constructed.

Engineering	\$72 35
Inspection	65 19
Engineering expense	20
Advertising	3 20
Expert services	7 42
Templets	32 62
Edgestone, 260 feet straight, 31 feet circular and 2 small corners	590 47
Amount paid to Charles M. Callahan, under contract:	
167 cubic yards earth excavation @ 75c.	\$125 25
10 tons crushed stone furnished, placed, watered and rolled @ \$2.50	25 00
263 linear feet straight edgestone set @ 20c.	52 60
38 linear feet circular edgestone set @ 21c.	7 98
3 linear feet existing edgestone reset @ 20c.	60
5 square yards existing granite block paving relaid, gravel joints, @ 70c.	3 50
8 square yards existing granite block pavement relaid, concrete base, sand bed and grout joints, @ \$2.50	20 00
555 square yards concrete base and asphalt concrete surface layer furnished and laid @ \$3	1,665 00
48 square yards asphalt concrete pavement surface layer furnished and laid on macadam foundation @ \$2	96 00
	<hr/>
<i>Carried forward</i>	\$1,995 93
	<hr/>
	\$771 45

<i>Brought forward</i>	\$1,995 93	\$771 45
1,198 square feet artificial stone foundation furnished and placed @ 4c.	47 92	
1,219 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 21c.,	255 99	
2 covers reset @ \$3	6 00	
2 cubic yards loam furnished @ \$3	6 00	
	<hr/>	2,311 84
		<u>\$3,083 29</u>

Tilton street, northwesterly from Fellows street. (Work not started.)

Engineering	\$47 24
Engineering expense	90
Advertising	1 97
	<hr/>
	<u>\$50 11</u>

Tremont street (westerly side), from Park street to Boylston street. (Work done in 1920.)

Engineering	\$22 00
Expert services	24 80
Final payment to James Doherty for work done in 1920, under contract	3,092 75
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	<u>\$3,139 55</u>

Washington street (south side), from Tremont street to Nonantum street. Roadway widened. Length, 112 feet. Asphalt area, 300 square yards. Edgestone reset, asphalt macadam roadway constructed and artificial stone sidewalks constructed. (Unfinished work from 1920.)

Engineering	\$84 00
Inspection	6 50
Labor, sidewalks	19 75
Labor, roadway	38 81
Cement	67 77
Sand	14 43
Crushed stone	114 60
Steam roller	9 00
Teaming	13 73
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	<u>\$368 59</u>

Wensley street (south side), from Bickford avenue to Bucknam street. (Work not started.)

Advertising	<u>\$1 97</u>
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Whitten street, from Dorchester avenue to Althea street. Length, 1,017 linear feet. Area, 3,098 square yards. Edgestone set. Bitulithic pavement laid on 4-inch concrete base and artificial stone sidewalks constructed with a loam space.

Engineering	\$190 28
Inspection	196 54
Engineering expense	0 40
Advertising	4 00
Expert services	7 41
Templets	22 36
Edgestone, 230 feet straight, 59 feet circular and 6 small corners	640 06
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	<u>\$1,061 05</u>

Carried forward \$1,061 05

<i>Brought forward</i>		\$1,061 05
Amount paid to Warren Brothers Company, under contract:		
Removing trees, bushes, etc.	\$5 00	
668 cubic yards earth excava- tion @ \$1.20	801 60	
5½ cubic yards rock excava- tion @ \$5	27 50	
201 linear feet straight edge- stone set @ 22c.	44 22	
79 linear feet circular edge- stone set @ 22c.	17 38	
67 linear feet existing edge- stone reset @ 22c.	14 74	
3,098 square yards concrete base and bitulithic pavement furnished and laid @ \$3.09	9,572 82	
477 square feet artificial stone foundation furnished and placed @ 4c.	190 08	
1,186 square feet artificial stone sidewalks, concrete base and wearing surface fur- nished and laid @ 24c.	284 64	
116 square feet artificial stone driveways, concrete base and wearing surface fur- nished and laid @ 35c.	40 60	
68 linear feet curbing fur- nished and laid @ \$1	68 00	
13 covers reset @ \$3	39 00	
7 courses of brickwork laid @ 50c.	3 50	
3 cubic yards loam furnished @ \$3.15	9 45	
127 square yards loam graded and seeded @ 20c.	25 40	
	<hr/>	10,972 93
		<hr/> <u>\$12,033 99</u>
<i>Wilbur street</i> , from Upham avenue to Cushing avenue. Length, 335 linear feet. Area, 828 square yards. Edgestone set, Topeka pavement laid and artificial stone sidewalks constructed. (Work done in 1920.)		
Engineering expense	\$0 30	
Final payment made to Central Construction Company for work done in 1920, under contract	410 37	
	<hr/>	<u>\$410 67</u>
<i>William Jackson avenue</i> , from Chestnut Hill avenue to Academy Hill road. Length, 500 linear feet. Area, 957 square yards. Sub-graded, edgestone set, sheet asphalt pavement laid and artificial stone sidewalks constructed. (Work done in 1920.)		
Engineering expense	\$0 30	
Final payment made to John J. Lane for work done in 1920, under contract	1,106 11	
	<hr/>	<u>\$1,106 41</u>

STREET IMPROVEMENTS.

Congress street, Post Office square and Milk street, from State street across Federal street. Length, 1,035 linear feet. Area, 5,868 square yards.

Wood block pavement laid on 6-inch concrete base and the area between the car track was paved with new granite block with asphalt joints on a 6-inch concrete base.

Engineering	\$826 91
Inspection	752 68
Engineering expense	2 40
Advertising	7 30
Expert services, inspection of wood blocks	165 80
Blocks, large granite	1,532 31
Amount paid to Coleman Brothers, Inc., under contract:	
925 cubic yards concrete base furnished and laid @ \$8	\$7,400 00
704 square yards granite block pavement laid in dummy of car tracks, sand bed and asphalt joints, @ \$2	1,408 00
309 square yards existing granite block pavement relaid, sand bed and grout joints, @ \$1.90	587 10
5,070 square yards wood block pavement furnished and laid, mortar bed, sand joints and covering sand, @ \$2.70	13,689 00
31 square yards existing wood block pavement relaid, mortar bed, sand joints and covering sand, @ \$1,	31 00
6 covers reset @ \$3	18 00
Extra Work — Reset edge-stone, break out and relay artificial stone sidewalks and relay brick sidewalks where directed:	
16 hours, foreman, @ \$1	16 00
3 hours, paver, @ \$1	3 00
3 hours, rammer, @ \$0c.	2 40
16 hours, finisher, @ \$1	16 00
48 hours' labor @ 35c.	16 80
Plus 15 per cent on \$54.20	8 13
4 hours, auto truck, @ \$3.50	14 00
30 bags cement @ 92c.	27 60
38 cubic feet sand @ 6c.	2 28
4 tons crushed stone @ \$3	12 00
	<hr/>
	23,251 31
	<hr/>
	\$26,538 71

La Grange street (north side), from Centre street to Landseer street. Length, 1,005 linear feet. Area, 9,020 square feet. Edgestone set and reset, granite block gutters laid and artificial stone sidewalks constructed.

Engineering	\$19 16
Inspection	61 36
	<hr/>
<i>Carried forward</i>	\$80 52

<i>Brought forward</i>		\$80 52
Amount paid to Joseph Todesca, under contract:		
Removing trees, bushes, etc.,	\$15 00	
868 linear feet straight edge-stone set @ 27c.	234 36	
52 linear feet circular edge-stone and corners set @ 27c.	14 04	
72 linear feet existing edge-stone reset @ 27c.	19 44	
210 linear feet crushed stone and concrete foundation furnished and placed @ 30c.	63 00	
99 square yards granite block paving hauled and laid, gravel joints, @ \$1.35	133 65	
112 square yards existing granite block paving relaid, gravel joints, @ \$1	112 00	
1 square yard existing flagging crosswalks relaid, gravel joints, @ 50c.	50	
9,020 square feet artificial stone foundation furnished and placed @ 10c.	902 00	
7,555 square feet artificial stone sidewalks, concrete base and wearing surface furnished and laid @ 27c.	2,039 85	
345 square feet artificial stone driveways, concrete base and wearing surface furnished and laid @ 50c.	172 50	
Extra work — Omit full width artificial stone sidewalks, from Sturgis road to Landseer street and substitute six (6) foot artificial stone walk with twelve (12) inch loam space and ten (10) tree pits 8 feet by 4 feet by 3 feet, 6 inches deep:		
Furnishing and placing loam, etc.	425 00	
	<hr/>	
	\$4,131 34	
Less amount paid in 1920	1,192 25	
	<hr/>	
	2,939 09	
	<hr/>	
	\$3,019 61	

RECAPITULATION OF STREET WORK.

Maintenance—Paving Service.

STREETS.	Limits.	Amounts.
Adams street.....	Percival street to Robinson street.....	\$740 50
Ashmont street.....	Carruth street to Adams street.....	4,917 49
Avenue Louis Pasteur....	Longwood avenue to Fenway.....	2,315 90
Babson street.....	Norfolk street to the railroad bridge.....	289 80
Blue Hill avenue.....	Schuyler street to Seaver street.....	2,302 45
Calumet street.....	Tremont street to Hillside street.....	255 50
Canterbury street.....	Morton street to Angell street.....	388 51
Carson street.....	Crescent avenue to about 300 feet northerly.....	1,283 55
Chickatawbut street.....	Neponset avenue to Glide street.....	1,426 00
Cliffmont street.....	Canterbury street to 1,140 feet southerly.....	863 57
Corey street.....	Moulton street to Medford street.....	1,315 28
Crescent avenue.....	Dorchester avenue, across Carson street.....	3,124 99
Cross street.....	Bartlett street to High street.....	1,115 98
Dalton street.....	Falmouth street to the railroad.....	2,500 54
Dickens street.....	Clayton street to Adams street.....	4,162 10
Dilworth street.....	Northampton street to Camden street.....	2,918 03
East Third street.....	H street to L street.....	469 18
Elm Hill avenue.....	Warren street to Seaver street.....	2,026 37
Everett street.....	Aldie street to 550 feet north of North Beacon street...	313 70
F street.....	Broadway to West Eighth street.....	392 70
Fairland street.....	Mt. Pleasant avenue to Moreland street.....	119 35
Falmouth street.....	Norway street to Belvidere street.....	1,251 22
Farragut road.....	Extension of.....	275 00
Fenwood road.....	Huntington avenue to Brookline avenue.....	5,118 01
Francis street.....	Huntington avenue to Pilgrim road.....	8,666 47
H street.....	East Broadway to Columbia road.....	520 91
Harrison avenue.....	At intersection of Eustis street.....	1,037 53
Harvard street.....	Morton street to Brookview street.....	964 97
Lake street.....	Commonwealth avenue to the Seminary gate.....	210 16
London street.....	Porter street to 118 feet south of Bennington street....	485 01
Mead street.....	Russell street to Main street.....	3,240 16
Moraine street.....	Centre street to Jamaica way.....	539 39
Morton street.....	Forest Hills street to Canterbury street.....	516 53
Carried forward.....		\$56,066 85

PUBLIC WORKS DEPARTMENT.

DETAIL OF WORK DONE BY HIGHWAY DIVISION, PAVING SERVICE FORCE, CHARGED TO APPROPRIATION "MAINTENANCE."

* 4,490 square yards planted with 1,230 square yards reserved

* Vented bricks

*2,000 square yards, Durango street, between Weeping road and bridge over Little Rio river, 1,000 square yards, Durango street, between Weeping road and Dryden street. 500 square yards on Broad street.



PUBLIC WORKS DEPARTMENT

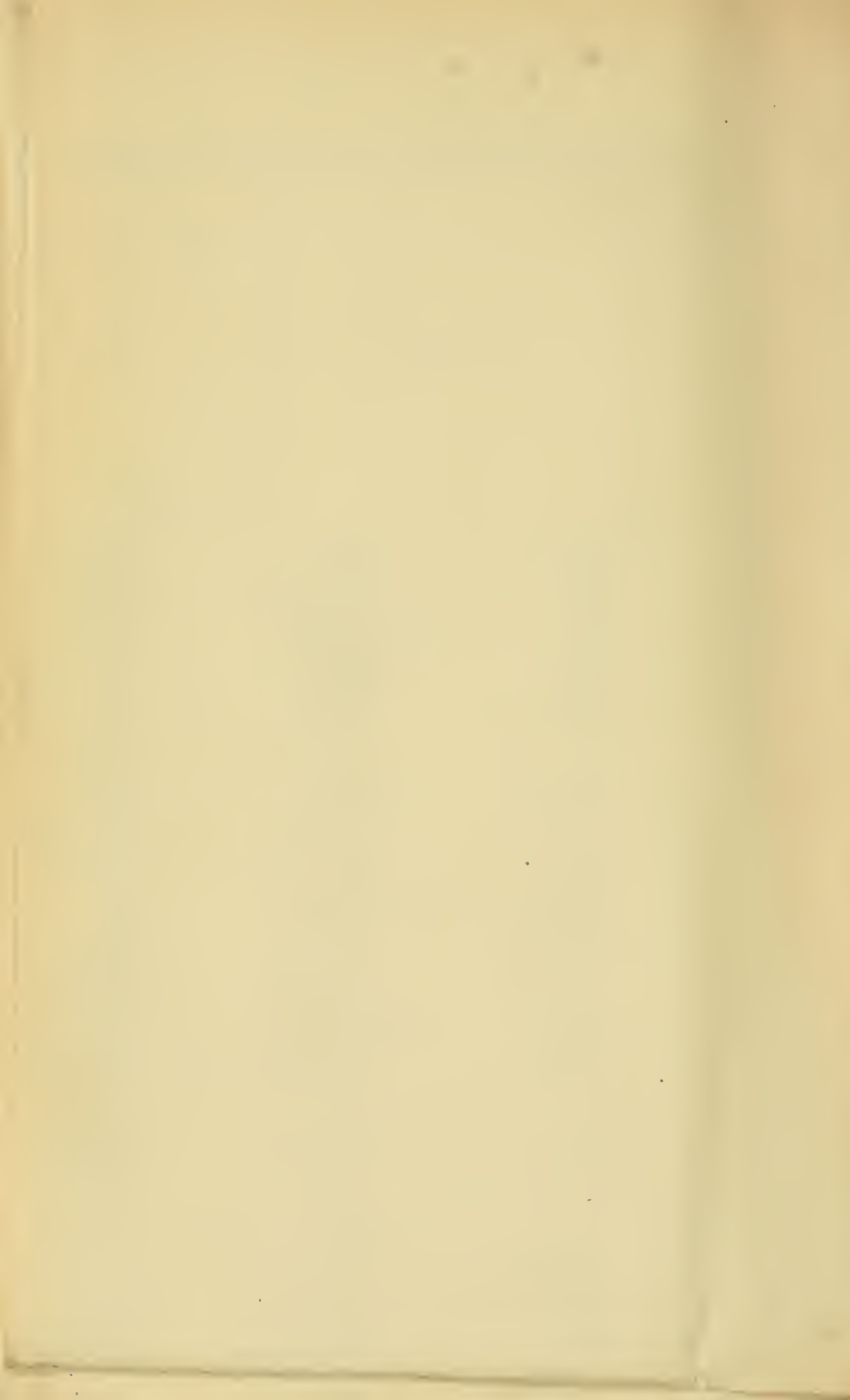
DETAIL OF WORK DONE BY HIGHWAY DIVISION--PAVING SERVICE FORCE, CHARGED TO "STREET IMPROVEMENTS."

* All formal credit shall be paid to the State of New York.

* 1/2 inch crushed stone will be paid for in 2022 and \$5,516.38 actual cost will be \$3,763.00.

*27 1" x 12" asphalt and gravel stone mixture used for patching 2' of potholes in this left lane of the material, \$449.21, making actual cost of potholes \$945.05

* This crushed stone will be used for 16.2 cu yd. (11,330 lb. actual weight of job will be 84,464.25)
 @ Traction
 * Crushed brick block



Maintenance.—Continued.

STREETS.	Limits.	Amounts.
<i>Brought forward</i>		\$56,066 85
Morton street.....	Harvard street to Canterbury street.....	22,624 08
Northern avenue.....	At viaduct.....	2,623 18
Richfield street.....	Columbia road to Olney street.....	6,530 12
River street.....	Mattapan square to Everett square.....	9,021 10
St. Cecilia street.....	Belvidere street to Boylston street.....	771 43
Sachem street.....	Calumet street to Parker Hill avenue.....	397 66
Sanford street.....	Washington street to Morton street.....	999 58
Saratoga street.....	Butler avenue to Belle Isle inlet.....	1,019 61
Sigourney street.....	Glen road to Walnut avenue.....	2,941 59
Summer street.....	East First street to drawbridge.....	3,647 52
Union Park street.....	Tremont street to Shawmut avenue.....	981 92
Vine street.....	Tufts street to Moulton street.....	87 60
Walnut avenue.....	Sigourney street to Columbus avenue.....	4,948 77
Warren street.....	Brookline line to 176 feet east of Cambridge street.....	465 38
Western avenue.....	North Harvard street to Charles river.....	634 75
		\$113,761 14
Due from Street Improvements.....	\$98,740 06	
Due from Reconstructing and Repairing Streets by Contract.....	732 00	
Due from Highways, Making of.....	103 00	
Due from Washington Street, West Roxbury.....	18 75	
		99,593 81
Total.....		\$213,354 95

Charged to Special Appropriations.

	Amounts.
North Beacon street, Brighton.....	\$24,301 50
Stuart street.....	1,361 53
Washington street, West Roxbury.....	1 ² 63,953 57
Total.....	\$89,616 00
1 Amount due to Paving Service.....	\$18 75
1 Amount due to Highways, Making of.....	56 95
	75 70
Total.....	\$89,540 90

² Washington street (Reconstructing and Repairing Streets by Contract).

Charged to Appropriation for Granolithic Sidewalks.

STREETS.	Limits.	Amounts.
Beacon street.....	South side, at Brookline avenue.....	\$460 66
Blue Hill avenue.....	West side, from 217 feet south of Goodale road to Wellington Hill streets.	2,860 55
Brooks street.....	Hobart street to Faneuil street.....	30
Bynner street.....	Creighton street to Day street.....	1,280 47
Corey street.....	Centre street to Weld street.....	230 63
Cowper street.....	Moore street about 300 feet easterly.....	2,334 09
Euclid street.....	Washington street to Withington street.....	2,951 12
Fairbanks street.....	Washington street to Faneuil street.....	6,168 71
Hemenway street.....	West side, Museum square about 230 feet northerly....	519 30
Hemenway street.....	East side, Batavia street to Gainsborough street.....	424 58
Linden street.....	Brighton avenue to Commonwealth avenue.....	30
Maple street.....	Oak street to Pine street.....	154 43
Moore street.....	Pennington street to Cowper street.....	4,761 38
Oak street.....	Hyde Park avenue to Maple street.....	151 40
Orchard street.....	Centre street to Pond street.....	5,672 76
Peterborough street.....	At Nos, 40 and 42.....	116 43
Pine street.....	Hyde Park avenue to Maple street.....	3 20
South street.....	Archdale road to Washington street.....	11,270 94
Sycamore street.....	Ashland street to Florence street.....	200 00
Wachusett street.....	Weld street to Walk Hill street.....	9,780 30
Repairing artificial stone sidewalks.....		585 09
Total.....		\$49,926 64
Amount due from Street Improvements.....		73 18
Total.....		\$49,999 82

Charged to Appropriation for Reconstructing and Repairing Streets by Contract.

STREETS.	Limits.	Amounts.
Adams street.....	King street to Minot street.....	\$10 80
Amory street.....	Green street to 140 feet north of Atherton street.....	14 00
Arlington street.....	Market street across Leicester street.....	5,153 07
Artificial stone sidewalks.....		18,214 23
Asphalt street repairs.....		2 64,872 45
Carried forward.....		\$78,264 55

¹ See, also, Schedule A.² See Maintenance.

Charged to Appropriation for Reconstructing and Repairing Streets
by Contract.— Continued.

STREETS.	Limits.	Amounts.
<i>Brought forward</i>		\$78,264 55
Beacon street.....	Chestnut Hill avenue (Cleveland circle).....	49,260 33
Beacon street.....	Massachusetts avenue to Raleigh street.....	96 95
Belgrade avenue.....	Belgrade street to South street.....	443 30
Berkeley street.....	Columbus avenue to Providence street.....	15 00
Bituminous paved street repairs.	See asphalt and bitulithic repairs.	
Blackstone street.....	Clinton street to Haymarket square.....	67 61
Blue Hill avenue.....	Talbot avenue to Morton street.....	345 40
Boylston street.....	Amory street to Centre street.....	20 00
Bremen street.....	230 feet northeast of Maverick street to Porter street..	11,051 96
Burke street.....	Tremont street to Columbus avenue.....	41 10
Centre street.....	Allandale street to South street.....	18,192 52
Centre street.....	Columbus avenue across Hyde square.....	42,839 24
Centre street.....	Forbes street to Boylston street.....	4,914 71
Centre street.....	Boylston street to Green street.....	14,827 70
Charles street.....	Fruit to Allen street.....	48 35
Chelsea street.....	Maverick street to Day square.....	84,482 36
Columbia road.....	Hancock street to Blue Hill avenue.....	50 84
Columbus avenue.....	Tremont street to Centre street.....	62,049 15
Columbus avenue.....	Centre street to Walnut avenue.....	55,960 26
Commercial street.....	Hanover street to Washington Street North.....	5 00
Corinth street.....	Washington street to Belgrade avenue.....	31 00
Cunard street.....	Tremont street to Columbus avenue.....	37 35
Davenport street.....	Tremont street to Columbus avenue.....	32 20
Devonshire street.....	Water street to Franklin street.....	2,636 60
Dorchester avenue.....	Dorchester Avenue Bridge to West Second street.....	4,720 76
Dorchester avenue.....	Andrew square to Savin Hill avenue.....	2,022 27
Dorchester avenue.....	Park street to Ashmont street.....	67,125 59
Dorchester street.....	West Broadway to West Eighth street.....	36,720 09
Dudley street.....	Alexander street to Stoughton street.....	5,432 40
East Fourth street.....	K street across P street.....	30
East and West Concord streets.	Albany street to Columbus avenue.....	211 73
East and West Springfield streets.	Harrison avenue to Columbus avenue.....	247 61
Exeter street.....	Boylston street to Commonwealth avenue.....	65 85
<i>Carried forward</i>		\$532,260 08

¹ See Highways, Making of.

**Charged to Appropriation for Reconstructing and Repairing Streets
by Contract.— Continued.**

STREETS.	Limits.	Amounts.
<i>Brought forward</i>		\$532,260 08
Fairfield street.....	Boylston street to Beacon street.....	188 53
Franklin street.....	60 feet west of Devonshire street to Broad street.....	26 00
Friend street.....	Union street to Causeway street.....	26,985 81
Gloucester street.....	Boylston street to Beacon street.....	142 21
Green street.....	Call street to Centre street.....	24,438 23
Hereford street.....	Beacon street to Boylston street.....	146 15
Humboldt avenue.....	Walnut avenue to Seaver street.....	75 00
Huntington avenue.....	North side, Gainsborough street to Hemenway street...	21,674 31
John Eliot square.....		50 68
Main street.....	City square across Alford street.....	1,001 80
Market street.....	Washington street across Western avenue.....	85,951 33
Milford street.....	Shawmut avenue to Tremont street.....	49 85
Mt. Vernon street.....	Joy street to West Cedar street.....	4,072 68
Northampton street.....	Washington street to Albany street.....	72 62
Pleasant street.....	Stoughton street to Savin Hill avenue.....	1,020 72
Portland street.....	Hanover street to Causeway street.....	50,728 42
Ralston street.....	Boston street, about 85 feet easterly (north side).....	589 50
Richmond street.....	Hanover street to Atlantic avenue.....	42,429 15
River street.....	Bridge over Providence Division, railroad across Everett square.	27,677 49
Robert street.....	Belgrade avenue to South street.....	161 97
Roxbury street.....	Kent street to John Eliot square.....	4 00
Rutherford avenue.....	Cambridge street to Chapman street.....	60
Rutland street and Rutland square.	Washington street to Columbus avenue.....	133 00
Sarsfield street.....	Tremont street to Grinnell street.....	42 90
Seaver street.....	Blue Hill avenue to Columbia road.....	9,794 72
Shawmut avenue.....	Tremont street to Roxbury street.....	464 07
South street.....	Washington street to Belgrade avenue.....	166 81
Southampton street.....	Albany street to Massachusetts avenue.....	34 00
Stoughton street.....	Columbia road to Pleasant street.....	3 30
Tremont street.....	Dover street to Northampton street.....	2 10
Walpole street.....	Tremont street to Grinnell street.....	24 30
Warren street.....	Dudley street to Blue Hill avenue.....	10 00
Washington street.....	Market street across Tremont street.....	37 92
Washington street.....	Beach street across Kneeland street.....	1,531 44
<i>Carried forward</i>		\$831,991 69

**Charged to Appropriation for Reconstructing and Repairing Streets
by Contract.—Concluded.**

STREETS.	Limits.	Amounts.
<i>Brought forward</i>.....	.....	\$831,991 69
Washington street.....	Archdale road to 75 feet south of Corinth street.....	34,707 36
*Washington street.....	Corinth street to West Roxbury Parkway.....	152 33
Washington street.....	Dudley street across Columbus avenue.....	1,158 93
Webster avenue.....	Hanover street to Unity street.....	873 17
Weston street.....	Tremont street to Columbus avenue.....	12 00
West Newton street.....	Tremont street to Shawmut avenue.....	10,262 33
Total.....	.....	\$879,157 81
Amount due from Street Improvements.....		\$2,038 53
Amount due to Paving Service.....		732 00
		1,306 53
Total.....	.....	\$880,464 33

Charged to Appropriation for Highways, Making of.

STREETS.	Limits.	Amounts.
Albany street.....	Broadway to about 75 feet south of Troy street.....	\$41,227 04
Alger street.....	Dorchester avenue to New York, New Haven & Hartford Railroad.....	30 97
Allenwood street.....	Anawan avenue to Pelton road.....	6,443 41
Arborway.....	Forest Hills street to Morton street.....	808 88
Arbutus street.....	Blue Hill avenue to Irma street.....	13,856 11
Archdale road.....	Washington street to South street.....	12,770 54
Ashland street.....	Hyde Park avenue to Wilmot street.....	61 36
Babcock street.....	Commonwealth avenue to Boston & Albany Railroad..	7,158 04
Balsam street.....	Ashton street to Irma street.....	102 54
Beech street.....	West Roxbury Parkway to Pelgrade avenue.....	9,497 85
Belgrade avenue.....	Anawan avenue to Centre street.....	29,734 56
Boylston street.....	North side, Tremont street to Charles street.....	1,855 12
Brenton street.....	Glenway street to Greenwood street.....	4,883 48
Broadway.....	At southeast corner of Washington street.....	14 40
Canterbury street.....	At the interesection of Walk Hill street.....	3,704 87
Castleton street.....	South Huntington avenue to Jamaicaaway.....	289 75
Centre street.....	South street to Spring street.....	224,563 08
Centre street.....	Allandale street to South street.....	1,693 21
<i>Carried forward</i>.....	.....	\$358,695 21

*See Washington street special.

Charged to Appropriation for Highways, Making of.—Continued.

STREETS.	Limits.	Amounts.
<i>Brought forward</i>		\$358,695 21
Charles street.....	Beacon street to Cambridge street.....	50,801 01
Chelsea street.....	Foss street to Adams street.....	3,448 19
Chesterton street.....	Massachusetts avenue to Allerton street.....	69 93
Chestnut Hill avenue....	Commonwealth avenue to Beacon street.....	34,932 59
Chilton road.....	From Weld Hill street, 411 feet northwesterly.....	6,048 98
Clarendon street.....	Stuart street to Columbus avenue.....	87,078 67
Colberg avenue.....	Beech street to West Roxbury Parkway.....	124 23
Crescent avenue.....	At northwest corner of Spring street.....	2,456 37
Cummington street.....	Commonwealth avenue to Boston & Albany Railroad..	6,366 27
Cushman road.....	Dustin street to Glencoe street.....	9,548 21
D street.....	Clafin street to Fargo street.....	154 80
East Fourth street.....	At northeast corner of K street.....	265 53
Easton street.....	North Harvard street to Mansfield street.....	3,221 23
Elder street.....	Columbia road to Humphreys street.....	2,566 37
Eliot street.....	Warrenton street to Broadway.....	1 97
Elmhurst street.....	Norfolk street to Southern avenue.....	78 46
Falkland terrace.....	Hobart street to Brooksdale road.....	30
Fargo street.....	B street to C street.....	15,012 13
Farquhar street.....	Selwyn street to Centre street.....	2,621 14
Freeport street.....	From Pope's Hill street southerly.....	1 97
Glenville avenue.....	Greylock road to Allston street.....	2,948 09
Grosvenor place.....	Cliff street southwesterly.....	857 54
Halifax street.....	South Huntington avenue to Pond View avenue.....	14,459 24
Hamlin street.....	East Eighth street to Columbia road.....	30
Harvard street.....	Fabyan street to beyond Brookview street.....	371 15
Hastings street.....	Centre street to Corey street.....	96 89
Hyde Park avenue.....	Metropolitan avenue to River street.....	63,744 94
Imrie road.....	Cambridge street to Allston street.....	8,324 13
Kenton road.....	Washington street, 844 feet easterly.....	464 83
Kilmarnock street.....	Boylston street to Queensberry street.....	28 22
Lawnwood place.....	Main street northeasterly.....	80 99
Liberty square.....	Oliver street to Batterymarch street.....	1 97
Marie street.....	Mt. Ida road to Percival street.....	73 74
Melton road.....	Wallingford road to Colonial road.....	11,101 48
Metcalf street.....	Dudley avenue to Penfield street.....	112 24
Mt. Ida road.....	Robinson street to 234 feet south of Marie street.....	3 60
<i>Carried forward</i>		\$686,162 91

Charged to Appropriation for Highways, Making of.—Concluded.

STREETS.	Limits.	Amounts.
<i>Brought forward</i>.....	.....	\$686,162 91
Morton street.....	From Forest Hills avenue easterly for 1,200 feet.....	602 57
McCraw street.....	Belgrade avenue to West Roxbury Branch Railroad....	475 39
Oriole street.....	Bellevue street to Emmons road.....	7,763 81
Parkwood terrace.....	Parkton road to Jamaica way.....	274 94
Pontiac street.....	Tremont street to Hillside street.....	17,375 89
Pond View avenue.....	Perkins street to Moraine street.....	93 21
Public Alley No. 710.....	East Brookline street to East Newton street.....	983 55
Public Alley No. 818.....	St. Stephen street about 690 feet westerly.....	1,607 08
Public Alley No. 909.....	Massachusetts avenue to Hemenway street.....	6,576 97
Ruxton road.....	Ridge road to Rugby road.....	56 97
South street.....	From Centre street about 270 feet easterly.....	5,621 16
Stuart street *.....	Clarendon street to Trinity place.....	1,874 56
Stanhope street.....	Morgan street to Trinity place.....	11,999 15
Thorndike street.....	Commonwealth avenue to Brookline line.....	3,083 29
Tilton street.....	Northwesterly from Fellows street.....	50 11
Tremont street.....	West side, Park street to Boylston street.....	3,139 55
Washington street.....	South side, Tremont street to Nonantum street.....	368 59
Wensley street.....	South side, Biekford avenue to Bucknam street.....	1 97
Whitten street.....	Dorchester avenue to Althea street.....	12,033 99
Wilbur street.....	Cushing avenue to Upham avenue.....	410 67
William Jackson avenue..	Chestnut Hill avenue to Academy Hill avenue.....	1,106 41
Total.....	.....	\$761,662 74
Less amount due to Paving Service.....	\$103 00	
Less amount due to Street Improvements.....	66 30	
	\$169 30	
Amount due from Washington street, West Roxbury.....	56 95	
		112 35
Total.....	.....	\$761,550 39

* See Special Appropriation for Stuart Street.

Charged to Appropriation for Street Improvements.

STREETS.	Limits.	Amount.
Ainsworth street.....	Centre street to Fairview street.....	\$2,443 73
Angelo street.....	Charter street to 162 feet southerly.....	816 60
Annabel street.....	Summer street to Columbia road.....	969 39
Ashland street.....	Hyde Park avenue to railroad bridge.....	1,030 44
Asticou road.....	St. Ann street to Washington street.....	334 84
<i>Carried forward</i>.....	.....	\$5,595 00

Charged to Appropriation for Street Improvements.—Continued.

STREETS.	Limits.	Amount.
<i>Brought forward</i>		\$5,595 00
B street.....	West Broadway to West Second street.....	86 14
Baker street.....	Centre street to Newton line.....	2,186 57
Bay State road.....	Granby street to Ashley street.....	1,706 61
Beacon street.....	At Brookline line.....	4 00
Beech street.....	Poplar street to West Roxbury Parkway.....	10,893 48
Bennington street.....	Walley street to Leverett avenue.....	3,334 37
Blue Hill avenue.....	Stratton street to Talbot avenue (east side).....	588 68
Boutwell street.....	Train street to Neponset avenue.....	1,408 40
Boylston street.....	Centre street to Amory street.....	8,563 53
Braddock park.....	Columbus avenue to New York, New Haven & Hartford Railroad.	762 15
Brooks street.....	Faneuil street to Hobart street.....	3,750 32
Brown avenue.....	Poplar street to Blakemore street.....	2,630 15
Bunker Hill street.....	Bates street to Chelsea street.....	508 70
Bunker Hill street.....	Jackson street to Edgeworth street.....	35 25
Burroughs street.....	Centre street to Pond street.....	978 78
Bynner street.....	Creighton street to South Huntington avenue.....	87 10
Cambridge street.....	Charles river to railroad bridge.....	18,207 04
Carver street.....	Eliot street to Boylston street.....	1,329 79
Cedar street.....	River street to Manchester street.....	3,971 71
Centre street.....	Forbes street to Boylston street.....	356 28
Charles street.....	Cambridge street to Fruit street (west side).....	2,929 11
Chestnut street.....	Charles street to River street.....	414 76
Clifton street.....	Dudley street to Shirley street.....	1,732 89
Columbia road.....	Buttonwood street to bridge over Mt. Vernon street...	3,093 72
Congress street, Milk street and Post Office square.	From State street, across Federal street.....	26,538 71
Cowper street.....	Moore street to Byron street.....	1,878 82
D street.....	Dorchester avenue to West Eighth street.....	4,569 60
Douglass street.....	Columbia road to East Eighth street.....	976 45
Dudley street.....	Washington street to Eliot square.....	8,136 65
East Canton street.....	Harrison avenue to Washington street.....	1,463 57
Everett street.....	Orleans street to Jeffries street.....	8,133 32
Fairbanks street.....	Washington street to Faneuil street.....	* 5,194 27
Fairmount avenue.....	Everett square to Midland Division Bridge.....	717 76
Forest Hills street.....	Lotus street to 500 feet south of Glen road.....	3,752 86
Foundry street.....	At intersection of Macallen street.....	†
<i>Carried forward</i>		\$136,516 54

* See Granolithic Sidewalks.

† Included in cost of Macallen street.

Charged to Appropriation for Street Improvements.—Continued.

STREETS.	Limits.	Amount.
<i>Brought forward</i>.....	.....	\$136,516 54
Freeport street.....	Pope's Hill street to the bridge.....	4,171 27
Freeport street.....	133 feet east of Dorchester avenue to New York, New Haven & Hartford Railroad.....	210 00
Geneva avenue.....	Vinson street, across Park street.....	2,533 50
George street.....	Shirley street to Magazine street.....	3,036 95
Grove street.....	Washington street to Dedham line.....	4,000 85
Hancock street.....	Columbia road to Bowdoin street.....	1,816 62
Harrison avenue.....	Dover street to Union Park street.....	3,948 67
Havre street.....	Meridian street to Bennington street.....	3,948 52
Heath street.....	Parker street to Bromley street.....	5,489 50
Hemenway street.....	Batavia street to Gainsborough street.....	4 00
Hemenway street.....	At Museum road.....	4 00
Hyde Park avenue.....	Tower street to Ashland street.....	908 83
Hyde Park avenue.....	Ashland street to Morton street.....	979 26
Hyde Park avenue.....	River street to Milton street.....	2,365 45
Jerome street.....	Hancock street to Everett avenue.....	110 50
Jersey street.....	Boylston street to VanNess street.....	228 60
Judson street.....	West Cottage street to Brookford street.....	9,194 46
King street.....	Adams street to Neponset avenue.....	4,629 36
L street.....	East Fourth street to East Broadway.....	1,756 85
La Grange street.....	Centre street to Landseer street (north side).....	3,019 61
La Grange street.....	Washington street 300 feet westerly.....	2,090 03
London street.....	Porter street to Sumner street.....	2,263 01
Lonsdale street.....	Adams street to Dorchester avenue.....	4,114 44
Macadam street repairs.....	.....	31,306 47
Macallen street.....	Dorchester avenue to Foundry street.....	2,845 28
Magnolia street.....	Lawrence avenue to Dudley street.....	8,823 01
Meridian street.....	Condor street 224 feet northerly.....	882 68
Mill street.....	Rutherford avenue to Essex street.....	415 20
Milton avenue.....	Beacon street to Highland avenue.....	944 66
Moore street.....	Bennington street to Cowper street.....	2,434 15
Morton street.....	Forest Hill street to Canterbury street.....	445 83
Neponset avenue.....	Hyde Park avenue to Canterbury street.....	3,961 85
Newburg street.....	Beech street to Belgrade avenue.....	2,242 52
Oakland street.....	Hobart street to Bennett street.....	99 57
Oakland street.....	600 feet north of Washington street to Faneuil street.....	338 73
Paris street.....	Meridian street to Bennington street.....	3,143 81
Park street.....	Adams street to Old Colony Railroad Bridge.....	16,406 92
<i>Carried forward</i>.....	.....	\$271,631 50

Charged to Appropriation for Street Improvements.—Concluded.

STREETS.	Limits.	Amounts.
<i>Brought forward</i>		\$271,631 50
Park street.....	Centre street to Martin street.....	10,042 68
Peterborough street.....	At Nos 40 and 42.....	3 00
Pleasant street.....	Warren street to Monument square.....	2,500 01
Poplar street.....	Canterbury street to Hyde Park line.....	14,530 48
Posen street.....	Minden street to Arklow street.....	2,133 14
Ralston street.....	Dorchester avenue to Boston street.....	871 19
St. Ann street.....	South street to Hampstead street.....	4,328 82
Salcombe street.....	Stoughton street to Cushing avenue.....	2,865 25
Sawyer avenue.....	Pleasant street to beyond Cushing avenue.....	6,470 65
Schuyler street.....	Blue Hill avenue to Elm Hill avenue.....	2,163 14
Shawmut avenue.....	West Newton street to Pembroke street (west side)....	698 40
Sherwood street.....	Florence street to Ashland street.....	3,586 43
South street.....	Washington street to Mosgrove avenue.....	7,080 14
South street.....	Arboretum entrance to railroad bridge.....	2,744 91
Spring street.....	Gardner street to 100 feet north of railroad bridge....	4,139 61
Stanhope street.....	Berkeley street to Morgan street.....	952 56
Sumner street.....	Stoughton street to East Cottage street.....	5,788 84
Train street.....	Victory road to Ashmont street.....	6,825 09
Trenton street.....	Bartlett street to Bunker Hill street.....	2,479 27
Union Park street.....	Harrison avenue to Albany street.....	1,809 45
Wachusett street.....	Walk Hill street to Weld Hill street.....	4,545 25
Waldeck street.....	Tonawanda street to Melville avenue.....	5,184 46
Wapping street.....	Chelsea street to Water street.....	2,414 51
Washington street.....	Eldon street to Fenelon street.....	5,511 76
Washington street.....	Circuit street to Dale street (east side).....	4,443 76
Waumbeck street.....	Warren street to Crawford street.....	6,234 15
Wellington street.....	Columbus avenue to railroad.....	879 79
West Fourth street.....	B street to C street.....	5,748 70
Windermere road.....	Stoughton street to Cushing avenue.....	2,889 93
Total.....		\$391,496 87
Due to Paving Service.....	\$98,740 06	
Due to Granolithic Sidewalks.....	73 18	
Due to Reconstructing and Repairing Streets by Contract.....	2,038 53	
	\$100,851 77	
Due from Highways, Making of.....	66 30	
		100,785 47
		\$290,711 40

PUBLIC WORKS DEPARTMENT—HIGHWAY DIVISION —PAVING SERVICE.

Maintenance of Macadam Streets.

Table Showing Cost by Years of Resurfacing or Patching from February 1, 1917, to January 31, 1922.

	1917.	1918.	1919.	1920.	1921.
Total length of macadam in miles.....	390.04	386.97	379.90	\$ 375.28	\$ 366.10
Total area of macadam in square yards.....	6,913,275	6,815,543	6,648,728	\$ 6,538,199	\$ 6,232,041
Total cost of resurfacing of macadam *......	\$138,452.49	\$115,285.89	\$283,983.33	\$ \$289,635.97	\$ \$301,051.59
Total cost of patching of macadam †.....	\$198,820.05	\$181,286.71	\$213,774.43	\$ \$248,468.81	\$ \$251,521.06
Cost of resurfacing per mile over entire mileage.....	\$354.96	\$297.92	\$747.52	\$771.78	\$822.32
Cost of resurfacing per square yard over entire area.....	\$0.02	\$0.017	\$0.042	\$0.044	\$0.0483
Length of macadam resurfaced yearly in miles.....	10.74	12.6	19.9	16.2	19.07
Cost per mile of macadam resurfaced yearly.....	\$12,891.29	\$9,149.59	\$14,270.52	\$17,878.76	\$15,786.66
Area of macadam resurfaced yearly in square yards.....	165,401	186,337	268,015	229,680	254,321
Cost per square yard of macadam resurfaced yearly.....	\$1.20	\$0.619	\$1.059	\$1.26	\$1.183
Area of macadam patched yearly in square yards.....	788,981	230,159	397,362	\$ 540,090	\$ 686,509
Cost per square yard of macadam patched yearly.....	\$0.252	\$0.788	\$0.537	\$0.459	\$0.366
Binders used in resurfacing (per cent):					
Water.....	.0685	.4259	.1569	.1200	.1022
Tar preparation.....	.5831	.3695	.4534	.3569	.4420
Asphalt preparations.....	.3474	.2046	.3897	.5231	.4558

* By resurfacing is meant entire area of street excavated and resurfaced with not less than four inches of new material.

† By patching is meant scattered areas of depressions, etc., which are filled with new material from a depth of one half inch up, and in some cases blanketed with bituminous binder.

‡ Of this amount 128.03 miles or 2,353,347 square yards is bituminous macadam.

\$ \$85,539.84 charged to Maintenance; \$215,517.75 charged to Street Improvements.

¶ \$209,990.59 charged to Maintenance; \$41,524.47 charged to Street Improvements.

|| 347,275 square yards patched; 295,033 square yards tar blanket coat; 44,201 square yards asphalt blanket coat.

New Edgestones. (Does not include work done on streets laid out and constructed under chapter 393 of the Acts of 1906.)

First Setting. Linear Feet.

YEAR.	South Boston.	East Boston.	Charlestown.	Brighton.	West Roxbury.	Dorchester and Hyde Park.	Roxbury.	City Proper.	Totals.
1912.....	6,045	1,017	229	1,806	7,890	9,669	3,168	407	39,231
1913.....	2,199	557	70	1,221	2,907	10,296	2,716	1,359	21,325
1914.....	4,773	959	.....	1,970	1,520	1,637	901	672	12,432
1915.....	947	265	.....	4,939	2,230	6,928	4,547	331	20,187
1916.....	221	1,996	.....	1,987	2,393	3,378	1,968	638	12,581
1917.....	1,779	298	.....	1,159	8,225	7,189	933	524	20,107
1918.....	.....	2,498	.....	162	4,751	684	662	.....	8,757
1919.....	324	151	.....	1,144	1,075	1,573	641	54	4,962
1920.....	87	244	336	37	.....	.....	1,837	999	3,540
1921.....	30	367	.....	333	359	1,800	1,641	.....	4,530
Totals..	16,405	8,352	635	14,758	31,350	43,154	19,014	4,984	138,652

New Brick Sidewalks. (Does not include work done on streets laid out and constructed under chapter 393 of the Acts of 1906.)

First Laying. Square Yards.

YEAR.	South Boston.	East Boston.	Charlestown.	Brighton.	West Roxbury.	Dorchester and Hyde Park.	Roxbury.	City Proper.	Totals.
1912.....	2,249	623	.....	.....	.....	208	716	.....	3,790
1913.....	490	465	.....	.....	80	103	647	86	1,871
1914.....	762	379	.....	.....	.....	150	382	585	2,258
1915.....	287	465	.....	150	.....	.....	501	.....	1,403
1916.....	125	175	.....	.....	.....	.....	366	.....	666
1917.....	17	20	.....	.....	.....	105	599	49	790
1918.....	.....	95	.....	.....	.....	.....	95	40	230
1919.....	491	1,351	.....	.....	.....	.....	322	.....	2,164
1920.....	19	210	.....	.....	.....	.....	.....	.....	229
1921.....	2,122	.....	.....	.....	.....	576	322	.....	.....
Totals..	6,562	3,783	.....	150	80	1,142	3,950	446	15,427

Recapitulation, 1921.

DISTRICTS.	Edgestones. <i>Linear Feet.</i>	Brick. <i>Square Yards.</i>
South Boston Paving District, No. 1.	30	2,122
East Boston Paving District, No. 2.	367	.....
Charlestown Paving District, No. 3. ....	.....	.....
Brighton Paving District, No. 4.	333	.....
West Roxbury Paving District, No. 5.	359	.....
Dorchester Paving District, No. 6.	1,434	576
Roxbury Paving District, No. 7.	1,641	322
South End Paving District, No. 8. ....	.....	.....
Ashmont Paving District, No. 9.	366	.....
North End Paving District, No. 10. ....	.....	.....
Hyde Park Paving District, No. 11. ....	.....	.....
Totals.	4,530	3,020

Loads of Dirt and Street Cleanings Removed from February 1, 1921,
to January 31, 1922.

DISTRICTS.	Single. *	Double. †	Auto Trucks. ‡	Cubic Yards.
South Boston. ....	.....	.....	.....	.....
East Boston.	164	131	.....	426
Charlestown.	46	.....	.....	46
Brighton.	1,196	1,444	.....	4,084
West Roxbury.	1,216	2,826	.....	6,868
Dorchester.	333	188	.....	709
Roxbury.	5,206	121	.....	5,448
South End.	6	168	75	792
Ashmont.	1,341	290	.....	1,921
North End.	294	.....	.....	294
Hyde Park.	2,074	499	.....	3,072
Totals.	11,876	5,667	75	23,660

* Single loads, 1 cubic yard. † Double loads, 2 cubic yards.
‡ Auto truck loads, 6 cubic yards.

**The Number of Loads of Snow Removed from February 1, 1921, to
January 31, 1922.**

DISTRICTS.	Single. *	Double †	Auto Trucks.	Cubic Yards.	Cost. ‡
South Boston.....	2,483	.....	.....	4,966	\$8,725 16
East Boston.....	193	.....	.....	386	6,629 99
Charlestown.....	1,227	652	.....	4,410	6,972 80
Brighton.....	161	530	.....	1,912	5,601 05
West Roxbury.....	384	776	.....	3,096	10,182 96
Dorchester.....	861	420	.....	2,982	10,947 41
Roxbury.....	720	183	.....	1,989	23,295 29
South End.....	871	120	.....	2,102	9,795 33
Ashmont.....	72	154	.....	606	5,774 05
North End.....	1,069	.....	.....	2,138	10,533 16
Hyde Park.....	.....	.....	.....	.....	2,002 39
Totals.....	8,041	2,835	.....	24,587	\$100,459 59

* Single loads, 2 cubic yards. † Double loads, 3 cubic yards.

‡ Includes cost of plowing gutters, cleaning sidewalks and picking ice not carted away.

**Snow and Ice Removed by Contract from February 1, 1921, to
January 31, 1922.**

SNOW DISTRICTS.	Number of Loads.*	Cubic Yards.	Cost per Cubic Yard.	Total Cost.
District No. 1.....	2,184	14,563	\$0 45	\$6,553 35
District No. 2.....	1,181	9,562	55	5,259 10
District No. 3.....	6,993	36,768	63	23,163 84
District No. 4.....	1,282	10,070½	68	6,847 94
District No. 5.....	2,944	24,201½	70	16,941 05
District No. 6.....	3,847	20,800	49	10,192 00
District No. 7.....	1,211	10,778	49	5,281 22
Totals.....	19,642	126,743	\$0 57	\$74,238 50

NOTE.— * Loads vary from three (3) to ten (10) cubic yards.

Summary of Volume and Cost of Snow Removed, Year Ending January 31, 1922.

WORK DONE BY	Districts.	TEAMS.		TOTAL TEAMS.		Cubic Yards.	Total Cubic Yards.	Cost.	Total Cost.	Cost per Cubic Yard.	Total Cost per Cubic Yard.
		Single.	Double and Auto Truck.	Single.	Double and Auto Truck.						
Paving Service, day work.	South Boston.....	2,483	.....	.....	.....	4,966	.....	\$8,725 16	.....	.....	.....
	East Boston.....	193	.....	.....	.....	386	.....	6,629 99	.....	.....	.....
	Charlestown.....	1,227	652	.....	.....	4,410	.....	6,972 80	.....	.....	.....
	Brighton.....	161	530	.....	.....	1,912	.....	5,601 50	.....	.....	.....
	West Roxbury.....	384	776	.....	.....	3,096	.....	10,182 96	.....	.....	.....
	Dorchester.....	861	420	.....	.....	2,982	.....	10,947 41	.....	.....	.....
	Roxbury.....	720	183	.....	.....	1,989	.....	23,295 29	.....	.....	.....
	South End.....	871	120	.....	.....	2,102	.....	9,795 33	.....	.....	.....
	Ashmont.....	72	154	.....	.....	606	.....	5,774 05	.....	.....	.....
	North End.....	1,069	.....	.....	.....	2,138	.....	10,533 16	.....	.....	.....
Paving Service, contract.	Hyde Park.....	.....	.....	18,041	2, 3, 2,835	.....	24,587	2,002 39	\$100,459 59	.....	.....
	Snow District No. 1.....	.....	2,184	.....	.....	14,563	.....	\$6,553 35	.....	\$0 45	.....
	Snow District No. 2.....	.....	1,181	.....	.....	9,562	.....	5,259 10	.....	55	.....
	Snow District No. 3.....	.....	6,993	.....	.....	36,768	.....	23,103 84	.....	63	.....
	Snow District No. 4.....	.....	1,882	.....	.....	10,071	.....	6,847 94	.....	68	.....
	Snow District No. 5.....	.....	2,844	.....	.....	24,201	.....	16,941 05	.....	70	.....
	Snow District No. 6.....	.....	3,847	.....	.....	20,800	.....	10,182 00	.....	49	.....
	Snow District No. 7.....	.....	1,211	.....	.....	10,778	.....	5,281 22	.....	49	.....
	Miscellaneous.....	.....	.....	.....	.....	.....	.....	2,718 99	.....	.....	.....
	Totals.....	.....	.....	.....	.....	.....	126,743	\$70,957 49	.....	\$0 57	.....
Street Cleaning Service.	South Boston.....	252	.....	.....	.....	756	.....	\$3,287 02	.....	\$0 993	.....
	East Boston.....	678	.....	.....	.....	2,034	.....	2,483 95	.....	872	.....
	Charlestown.....	232	.....	.....	.....	696	.....	1,364 15	.....	1 009	.....
	Dorchester.....	64	.....	.....	.....	192	.....	1,005 67	.....	867	.....
	Roxbury.....	.....	.....	.....	.....	.....	.....	492 24	.....	03	.....
	South End, down town.....	8,943	.....	.....	.....	26,829	.....	9,961 55	.....	365	.....
	Back Bay.....	156	.....	.....	.....	468	.....	437 85	.....	602	.....
	North and West Ends.....	4,048	.....	.....	.....	12,144	.....	7,960 80	.....	619	.....
	Patrol (system).....	4,592	.....	.....	.....	13,776	.....	10,998 90	.....	616	.....
	Totals.....	.....	.....	.....	7 18,965	.....	56,895	.....	\$37,982 13	.....	\$0 518

¹ Single load, 2 cubic yards.² Double load, 3 cubic yards.³ Auto truck loads 6 cubic yards.⁴ Includes cost of plowing gutters, cleaning sidewalks and picking ice not carted away.⁵ Loads vary from 3 to 10 cubic yards.⁶ Includes engineering and inspection, \$2,157.39 and incidentals, \$561.60.⁷ Street Cleaning Service, single loads, 3 cubic yards.

STREET OPENINGS.

Under Classes 1 and 2 of the schedule of permit fees, permits were issued for openings in public ways as follows:

TO WHOM ISSUED.	Permits.	Length in Feet.
Sewer and Water Services.....	2,498	29,976
Boston Consolidated Gas Company.....	1,284	37,765
Boston Elevated Railway Company.....	231	128,005
Dedham and Hyde Park Gas and Electric Company.....	45	3,280
Edison Electric Illuminating Company.....	1,367	97,310
New England Telephone and Telegraph Company,	165	12,945
Quincy Market Cold Storage and Warehouse Com-		
pany.....	20	1,370
Western Union Telegraph Company.....	41	5,485
Miscellaneous.....	904	180,351
Emergency permits.....	748	.....
Emergency permits returned as used.....	742	.....
Estimated length of emergency permits.....	.....	18,500
Totals.....	8,045	515,187

Making a total length of openings approximately ninety-eight miles. This is the shortest estimated length for a number of years.

Permits for purposes other than openings have been issued as follows:

Advertised by men wearing lettered hat and coat	27
Cleaning snow from roof	36
Driving cattle through streets	3
Erecting and repairing awnings	902
Erecting and repairing buildings	908
Painting or minor repairs on buildings	4,615
Moving buildings in streets	1
Feeding horses in streets	106
Placing signs flat on buildings	859
Projecting signs from buildings	341
Raising or lowering safes or heavy machines	151
Emergency permits for above	404
Special permits	410
	<u>8,763</u>
Total of all permits issued	<u>16,808</u>

The revenue from issuing permits amounted to \$22,366.28, divided as follows:

Class No.	1.	Openings	\$3,411 50
	2.	Emergency openings	761 00
	3.	Advertising	27 00
	4.	Cleaning snow from roofs	36 00
	5.	Driving cattle	15 00
	6.	Erecting and repairing awnings	896 00
	7.	Moving buildings	15 00
	8.	Erecting, repairing and altering buildings	9,614 78
	9.	Minor repairs on buildings	4,607 00
	10.	Feeding horses	106 00
	11.	Placing flat signs	857 00
	12.	Projecting signs	341 00
	13.	Raising and lowering safes, etc.,	154 00
	14.	Emergency permits for above	404 00
	15.	Special permits	1,121 00
			<hr/>
			\$22,366 28
			<hr/>

Nineteen thousand one hundred and forty-four dollars and sixty-eight cents were deposited with the City Collector. Bills for the collection of \$3,221.60 were deposited with the City Collector.

POLES.

Permits were issued for placing 336 poles in new locations, for replacing 437 in old locations and for removal of 392.

BONDS.

There are now on file 1,934 surety company bonds in amounts of one, three and twenty thousand dollars covering the city against claims for damages, etc., through the use of permits.

DEFECTS IN SIDEWALKS AND ROADWAYS.

Sixteen thousand nine hundred and sixty notices were sent to the foremen of the paving districts, contractors, public service corporations and others to make repairs to pavement defects for which they were responsible.

Two hundred and ninety-four notices were sent to property owners to make repairs for which they were responsible.

PLANS.

During the year plans were filed as follows:

TO WHOM ISSUED.	Mains.	Poles.	Tracks.	Conduits.	Miscellaneous.
New England Telephone and Telegraph Company.....		23		37	
Edison Electric Illuminating Company.....		157		149	
Boston Consolidated Gas Company,	11				
Dedham & Hyde Park Gas Company,	5				
Charlestown Gas Company.....	6				
Boston Elevated Railway Company,			8	6	
Quincy Market Cold Storage.....					
Boston Low Tension Wire Association,				1	
Boston Schoolhouse Commission..				2	
Eastern Massachusetts Railway Company,			1	1	
Boston Police Department.....				6	
Western Union Telegraph Company,				5	
Boston Fire Department.....				46	
Miscellaneous.....					51
Totals.....	22	180	9	253	51

Total number of plans now on file, 15,219.

STREET NUMBERING.

Building numbers have been assigned as listed below:

DISTRICTS.	Entire Streets Numbered.	Entire Streets Renumbered.	Partly Numbered Streets.	Partly Renumbered Streets.	Estates Numbered.	Estates Renumbered.
East Boston.....					34	1
Charlestown.....					14	1
Boston.....					86	
South Boston.....					37	
Roxbury.....		1		1	72	44
West Roxbury.....				1	263	6
Dorchester.....					286	5
Brighton.....					144	
Hyde Park.....					24	
Totals.....		1		2	960	57

LIST OF STREETS HAVING A SMOOTH PAVEMENT.

* Park roads in charge of Park Department. † Public streets in charge of Park Department. ‡ Laid without guaranty.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
A street (South Boston)	15 feet northeast of West Broadway to West Broadway. Acme asphalt. Laid by Warren Brothers Company..... Bessener brick block gutters. Laid by Warren Brothers Company.....	15 {	47 8	1917 1917	Oct. 18, 1922. Oct. 18, 1922.
A street (South Boston)	West Broadway to 15 feet southwest of West Broadway. Acme asphalt. Laid by Warren Brothers Company..... Bessener brick block gutters. Laid by Warren Brothers Company.....	15 {	45 8	1917 1917	Oct. 18, 1922. Oct. 18, 1922.
Academy Hill road (Brighton)	At Washington street. Bitulithic. Laid by Warren Brothers Company...	3	17	1913	
Acton street (city proper)	10 feet west of Washington street to 6 feet east of Bradford street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	243	329	1896	
Acton street (city proper)	6 feet east of Bradford street to Bradford street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	6	8	1897	
Adams street (Dorchester)	At Bowdoin street. Topeka. (Macadam base.) Laid by city force	13	159	1918	
Adams street (Roxbury)	Each side of Eustis street. Bitulithic. Laid by John F. Beatty	2	8	1914	
Adams street (Roxbury)	At Dudley street. Mack brick block. Laid by James Doherty	7	20	1910	
Addison street (East Boston)	At Saratoga street. Standard asphalt. Laid by Bernudez Company	8	32	1918	May 1, 1924.
Ainsworth street (West Roxbury)	At Centre street. Asphalt. (Macadam base.) Laid by the Bernudez Company.	9	29	1920	May 5, 1926.
Albany street (city proper)	82 feet north of Broadway to 27 feet north of Broadway. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	55	204	1899	
Albany street (city proper)	27 feet north of Broadway to 13 feet north of the south side of Way street. Pine wood block. Laid by New York, New Haven & Hartford Railroad Company.	55	204	1913	

List of Streets Having a Smooth Pavement — Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Albany street (city proper).....	7 feet north of Sloughton street to 10 feet north of Massachusetts avenue. Pine wood block. Laid by Bernard E. Grant.	974	5,844	1917	Jan. 19, 1923.
Albany street (city proper and Roxbury).	9 feet south of Massachusetts avenue to 37 feet north of Southampton street. Pine wood block. Laid by Bernard E. Grant.	234	1,407	1917	Jan. 19, 1923.
Albany street (Roxbury).....	44 feet south of Hampden street to 7 feet north of Eustis street. Mexican asphalt. Laid by Bernudez Company.	1,006	4,881	1918	‡
Alford street (Charlestown).....	Malden Bridge draw. Jennison Wright slab block pavement. Laid by Boston Bridge Company.	125	611	1918	‡
Alfred street (West Roxbury).....	At Green street. Topeka. Macadam base. Laid by Central Construction Company.	7	22	1921	June 3, 1926.
Algonquin street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	3	11	1913	
Allen street (city proper).....	Charles street to 1 foot east of Charles street. Pine wood block. Laid by John McCourt Company.	1	3	1920	Aug. 20, 1925.
Allen street (city proper).....	1 foot east of Charles street to 2 feet east of Charles street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1	3	1916	
Allen street (city proper).....	2 feet east of Charles street to 18 feet east of Blossom street. Mexican asphalt (macadam base). Laid by Central Construction Company.	786	2,099	1917	‡
Allen street (city proper).....	18 feet east of Blossom street to Chambers street. Bitulithic on crushed stone base. Laid by Warren Brothers Company.	507	1,300	1905	
Allandale street (West Roxbury).....	At Centre street. Topeka. Macadam base. Laid by Rowe Contracting Company.	33	150	1919	Aug. 12, 1924.
Allston street (Brighton).....	Brighton avenue to 10 feet south of Brighton avenue. Aztec asphalt (macadam base). Laid by the Burmedez Company.	10	40	1917	Dec. 7, 1922.

Allston street (Brighton)	North street line of Commonwealth avenue to the south street line of Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	129	344	1917	May 21, 1923
Allston street (Brighton)	At Bellvista road. Acme asphalt (macadam base). Laid by John F. Lynch.	.....	35	1919	June 24, 1924.
Ambrose street (Roxbury)	At Dearborn street. Mexican asphalt. Laid by Bermudez Company.	3	10	1918	+
Amory street (Roxbury and West Roxbury)	80 feet south of West Walnut park to 7 feet north of Green street. Mexican asphalt (macadam base). Laid by Central Construction Company.	3,397	10,206	1919	Dec. 6, 1924.
Amory street (West Roxbury)	7 feet north of Green street to Green street. Topeka. Laid by the Central Construction Company.	7	22	1919	Dec. 6, 1924
Anawan avenue (West Roxbury)	12 feet east of Belgrade avenue to Belgrade avenue. Topeka (macadam base). Laid by Rowe Contracting Company.	12	71	1920	April 22, 1926.
Anawan avenue (West Roxbury)	Belgrade avenue to 105 feet west of Belgrade avenue. Topeka (macadam base). Laid by Rowe Contracting Company.	105	354	1920	April 22, 1926.
Anawan avenue (West Roxbury)	27 feet east of Beech street to Beech street. Topeka (macadam base). Laid by Rowe Contracting Company.	27	108	1921	May 4, 1926.
Anawan avenue (West Roxbury)	West street line of Beech street to 90 feet west of west street line of Beech street. Topeka (macadam base). Laid by Rowe Contracting Company.	90	432	1921	May 4, 1926.
Andrews street (city proper)	East Dedham street to East Canton street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	201	290	1899	
Appleton street (city proper)	Tremont street to 16 feet west of Tremont street. Topeka. Laid by Rowe Contracting Company.	16	106	1919	May 31, 1924.
Appleton street (city proper)	4 feet east of Berkeley street to Berkeley street. Bitulithic. Laid by Warren Brothers Company.	4	18	1906	
Appleton street (city proper)	Berkeley street to 4 feet west of Berkeley street. Bitulithic. Laid by Warren Brothers Company	4	18	1906	
Appleton street (city proper)	4 feet west of Berkeley street to 3 feet east of Clarendon street. Acme asphalt (macadam base). Laid by Warren Brothers Company	564 {	2,180	1916	
Appleton street (city proper)	Bessemer brick block gutters. Laid by Warren Brothers Company		314	1916	
Appleton street (city proper)	3 feet east of Clarendon street to Clarendon street. Bitulithic. Laid by Warren Brothers Company.	3	15	1914	

List of Streets Having a Smooth Pavement — Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Appleton street (city proper)	Clarendon street to 3 feet west of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	3	14	1914	
Appleton street (city proper)	3 feet west of Clarendon street to 8 feet east of Dartmouth street. Acme asphalt (macadam base). Laid by Warren Brothers Company	{ 557 }	2,151	1916	
Appleton street (city proper)	Bessemer brick block gutters. Laid by Warren Brothers Company		310	1916	
Appleton street (city proper)	8 feet west of Dartmouth street to 91 feet east of West Canton street. Acme asphalt (macadam base). Laid by Warren Brothers Company	{ 293 }	140	1916	
Appleton street (city proper)	Bessemer brick block gutters. Laid by Warren Brothers Company		1,163	1916	
Appleton street (city proper)	91 feet east of West Canton street to 10 feet east of Columbus avenue. Bitulithic. Laid by Fred S. & A. D. Gore Corporation.	177	1,163	1912	
Appleton street (city proper)	10 feet east of Columbus avenue to Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	10	95	1906-07	
Arbutus street (Dorchester)	Irma street to 6 feet west of Irma street. Bitulithic. Laid by Warren Brothers Company.	6	19	1919	May 26, 1924.
Arbutus street (Dorchester)	6 feet west of Irma street to 6 feet east of Lucerne street. Topeka. Laid by Martino DeMatteo.	202	584	1921	May 17, 1926.
Arbutus street (Dorchester)	6 feet east of Lucerne street to Lucerne street. Aztec asphalt. Laid by the Bermudez Company.	6	19	1919	Oct. 20, 1924.
Arbutus street (Dorchester)	Lucerne street to 7 feet west of Lucerne street. Aztec asphalt. Laid by the Bermudez Company.	7	21	1919	Oct. 20, 1924.
Arbutus street (Dorchester)	7 feet west of Lucerne street to Blue Hill avenue. Topeka. Laid by Martino DeMatteo.	480	1,435	1921	May 17, 1926.
Arch street (city proper)	Milk street to Franklin street. Residual asphalt. Laid by Central Construction Company.	416	1,203	1915	
Arch street (city proper)	9 feet south of Franklin street to 12 feet north of Summer street. Residual asphalt. Laid by Central Construction Company.	382	1,303	1915	

Arch street (city proper)	12 feet north of Summer street to Summer street. Pine wood block. Laid by Northern Construction Company.	12	63	1915
Arch street (city proper)	Near Summer street. Trinidad asphalt. Laid by Northern Construction Company.	.....	150	1915
Archdale road (West Roxbury)	8 feet west of Washington street to South street. Topoka. Laid by Martino DeMatteo.	438	1,292	1921 May 26, 1926.
Ardale street (West Roxbury)	At Centre street. Asphalt (macadam base). Laid by Bermudez Company.	18	54	1920 May 5, 1926.
Ardent street (West Roxbury)	Colberg avenue to Belgrade avenue. Aztec asphalt. Laid by Central Construction Company.	290	840	1916
Arlington square (city proper)	Bridge over New York, New Haven & Hartford Railroad. Metropolitan brick (in street car tracks). Laid by Boston Elevated Railroad Company.	100 {	112 1,366	1901 1899
Arlington street (city proper)	Trinidad asphalt. Laid by Barber Asphalt Paving Company.	376	1,069	1911
Arlington street (city proper)	16 feet north of Boston & Albany Railroad Bridge to 50 feet north of Isabella street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	173	736	1918 †
Arlington street (city proper)	31 feet south of Providence street to 35 feet south of Boylston street. Bessemer brick block. Laid by Coleman Brothers.	10	60	1915
Arlington street (city proper)	8 feet north of Boylston street to 18 feet north of Boylston street. Pine wood block. Laid by Clark & Gore.	1,300	7,168	1901
Arlington street (city proper)	18 feet north of Boylston street to Beacon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	.....	70	1919 June 4, 1924.
Arlington street (Brighton)	At Newbury street. Bitulithic. Laid by Warren Brothers Company.	484	1,851	1921 June 8, 1926.
Arlington street (Hyde Park)	Market street to 11 feet west of Leicester street. Simasco. Laid by Simpson Brothers Corporation.	10	44	1921 May 12, 1926.
Arlington street (Hyde Park)	10 feet west of Hyde Park avenue to Hyde Park avenue. Topoka. Laid by Martino DeMatteo.	26	139	1921 May 12, 1926.
Arlington street (Hyde Park)	Hyde Park avenue to 26 feet east of Hyde Park avenue. Topoka. Laid by Martino DeMatteo.	14	51	1921 May 12, 1926.
Arlington street (Hyde Park)	26 feet east of Hyde Park avenue to 40 feet east of Hyde Park avenue. Topoka macadam base. Laid by Martino DeMatteo.			

List of Streets Having a Smooth Pavement — Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Armadine street (Dorchester).....	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	9	27	1918	Sept. 25, 1923.
Armington street (Brighton).....	At Imrie road. Asphalt concrete. Laid by Charles S. Callahan.....	5	12	1921	Aug. 2, 1926.
Arthur street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company.	10	28	1918	Dec. 24, 1923.
Ash street (city proper).....	Bennet street to north side of Nassau street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	226	440	1905	
Ash street (city proper).....	North side of Nassau street to 6 feet north of Oak street. Acme asphalt. Laid by Warren Brothers Company.	216	379	1909	
Ashburton place (city proper).....	Somerset street to 55 feet east of Bowdoin street. Bitulithic crushed stone base. Laid by Warren Brothers Company.	278	665	1904	
Ashburton place (city proper).....	55 feet east of Bowdoin street to Bowdoin street. Bitulithic. Laid by Warren Brothers Company.	48	111	1911	
Ashby street (Brighton).....	At Commonwealth avenue. Pine wood block. Laid by Clark & Gore.....	19	75	1915	
Aspinwall road (Dorchester).....	Talbot avenue to 22 feet east of Talbot avenue. Mack brick block. Laid by James Doherty.	22	98	1911	
Aspinwall road (Dorchester).....	22 feet east of Talbot avenue to 29 feet east of Talbot avenue. Mack brick crosswalks. Laid by James F. Murphy.	7	37	1907	
Aspinwall road (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	56	1913	
Astor street (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	13	1901	
Athens street (South Boston).....	West Second street to A street. Sicilian rock asphalt; bituminous concrete base. Laid by Boston Asphalt Company.	614	902	1895	
Athens street (South Boston).....	Bridge over New York, New Haven & Hartford Railroad. Pine wood block. Laid by Central Construction Company.	64	92	1918	†

Athens street (South Boston).....	B street to C street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	503	726	1892	
Athens street (South Boston).....	C street to D street. Sicilian rock asphalt. Laid by Jones & Meehan.....	508	734	1901	
Atherton street (Roxbury).....	Each side Amory street. Mexican asphalt (macadam base). Laid by Central Construction Company.	18	60	1919	Dec. 6, 1924.
Atkins street (Brighton).....	Washington street to 27 feet north of Justin road. Mexican asphalt. Laid by Central Construction Company.	618	1,490	1917	July 18, 1922.
Atlantic street (South Boston).....	At Thomas Park. Bitulithic. Laid by Warren Brothers Company.....	3	10	1905	
Atwill road (West Roxbury).....	Richwood street to 6 feet north of Richwood street. Topeka. Laid by Central Construction Company.	6	15	1917	June 19, 1923.
Atwill road (West Roxbury).....	6 feet north of Richwood street to Park street. Topeka. Laid by Rowe Contracting Company.	207	599	1919	Oct. 22, 1924.
Auburn street (city proper).....	8 feet south of Leverett street to Chambers street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	247	556	1911	
Auburn street (city proper).....	Chambers street to Poplar street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	367	764	1911	
Auburn street (Roxbury).....	Ruggles street to 7 feet south of Ruggles street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	7	20	1907	
Auburn street (Roxbury).....	7 feet north of Vernon street to Vernon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	7	20	1907	
Auckland street (Dorchester).....	At Hallam street. Mexican asphalt (macadam base). Laid by Martino DeMatteo.	.....	16	1919	June 30, 1924.
Austin street (Charlestown).....	8 feet west of Seminary place to 5 feet east of Lawrence street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	143	413	1891	
Avenue Louis Pasteur (Roxbury).....	121 feet north of Longwood avenue to Longwood avenue. Mack brick block. Laid by James Doherty.	121	1,244	1910	
Avery street (city proper).....	Washington street to 10 feet west of Washington street. Pine wood block. Laid by Bernard E. Grant.	10	30	1917	Nov. 4, 1922.

List of Streets Having a Smooth Pavement — Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Avery street (city proper).....	10 feet west of Washington street to Tremont street. Bitulithic. Laid by Coteman Brothers.	415	1,200	1914	
Avon street (city proper).....	Washington street to 9 feet east of Washington street. Pine wood block. Laid by Bernard E. Grant.	9	20	1917	Nov. 4, 1922.
Avon street (city proper).....	9 feet east of Washington street to Chauncy street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	420	1,042	1901	
Avon street (city proper).....	At Jordan Marsh Company doorways. Mack brick block.....	8	19		
B street (South Boston).....	14 feet northeast of West Broadway to West Broadway. Acme asphalt. Laid by Warren Brothers Company..... Bessener brick block gutters. Laid by Warren Brothers Company.....	14 {	45 8	1917 1917	Oct. 18, 1922. Oct. 18, 1922.
B street (South Boston).....	West Broadway southwesterly. Acme asphalt. Laid by Warren Brothers Company..... Bessener brick block gutters. Laid by Warren Brothers Company.....	..... ..... .....	10 3	1917 1917	Oct. 18, 1922. Oct. 18, 1922.
Babcock street (Brighton).....	Commonwealth avenue to Boston & Albany Railroad. Topeka. Laid by Rowe Contracting Company.	933	4,067	1920	Dec. 6, 1925.
Babson street (Dorchester).....	Blue Hill avenue to 25 feet north of Norfolk street. Bitulithic (macadam base). Laid by Warren Brothers Company.	201	653	1918	Nov. 4, 1923.
Babson street (Dorchester).....	25 feet north of Norfolk street to Norfolk street. Bitulithic. Laid by Warren Brothers Company.	25	150	1918	Nov. 4, 1923.
Babson street (Dorchester).....	Norfolk street to 83 feet south of Norfolk street. Bitulithic (macadam base). Laid by Warren Brothers Company.	83	645	1918	Nov. 4, 1923.
Baird street (Dorchester).....	Blue Hill avenue to Morton street. Bitulithic. Laid by Warren Brothers Company.	545	1,605	1919	May 26, 1924.
Bakersfield street (Dorchester).....	At Stoughton street. Topeka (macadam base). Laid by department forces,	2	7	1920	
Ballard street (West Roxbury).....	At Centre. Topeka (macadam base). Laid by Rowe Contracting Company.	11	22	1919	Aug. 12, 1924.

Balsam street (Dorchester).....	At Irma street. Bitulithic. Laid by Warren Brothers Company.....	7	22	1919	May 26, 1924.
Balsam street (Dorchester).....	7 feet east of Lucerne street to Lucerne street. Asphalt. Laid by The Bermudez Company.	7	22	1919	Oct. 20, 1924.
Balsam street (Dorchester).....	Lucerne street to 7 feet west of Lucerne street. Asphalt. Laid by The Bermudez Company.	7	22	1919	Oct. 20, 1924.
Bancroft street (Roxbury).....	At Columbus avenue. Asphalt concrete (macadam base). Laid by Simpson Brothers Corporation.	17	60	1921	Aug. 9, 1926.
Barbara street (West Roxbury).....	At Centre street. Topoka (macadam base). Laid by Central Construction Company.	11	33	1920	Dec. 22, 1925.
Bardwell street (West Roxbury).....	South street to Ballard street. Mexican asphalt. Laid by Central Construction Company.	623	1,328	1917	June 13, 1922.
Barton court (city proper).....	Barton street to Brighton street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	134	182	1904	
Barton street (city proper).....	Leverett street to Chambers street and Chambers street to 5 feet north of Milton street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	380	645	1895	
Barton street (city proper).....	5 feet north of Milton street to Milton street. Seyssel rock asphalt. Laid by Jones & Meehan.	5	8	1899	
Bath street (city proper).....	Each end at Post Office square. Pine wood block. Laid by Coleman Brothers Incorporated.	33	60	1921	Nov. 19, 1926.
Batterymarch street (city proper).....	93 feet west of Broad street to 7 feet east of Milk street. American rock asphalt (granite block base). Laid by Jones & Meehan.	206	659	1909	
Batterymarch street (city proper).....	7 feet east of Milk street to Milk street. Pine wood block. Laid by James Doherty.	7	21	1911	
Batterymarch street (city proper).....	Milk street to 7 feet west of Milk street. Pine wood block. Laid by James Doherty.	7	21	1911	
Batterymarch street (city proper).....	7 feet west of Milk street to 57 feet west of Milk street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	50	150	1896	
Batterymarch street (city proper).....	57 feet west of Milk street to 16 feet east of Liberty square. Aztec asphalt. Laid by James Doherty.	77	231	1919	†

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.		Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Battery-march street (city proper)	16 feet east of Liberty square to Liberty square.	Pine wood block.	Laid by James Doherty.	48	1919	Oct. 10, 1924.
Bay State road (Roxbury)	Beacon street to 215 feet west of Beacon street.	Pine wood block.	Laid by James Doherty.	1,244	1920	Sept. 11, 1925.
Bayswater street (East Boston)	Austin avenue to east street line of Wauppello road.	Aztec asphalt.	Laid by James Doherty.	2,555	1919	June 30, 1924.
Beacon street (city proper)	Tremont street to 12 feet west of Tremont street.	Pine wood block.	Laid by Bernard E. Grant.	43	1917	Oct. 21, 1922.
Beacon street (city proper)	21 feet west of Park street to 13 feet east of Charles street.	Topoka (macadam base).	Laid by Bernard E. Grant.	6,151	1917	Nov. 15, 1922.
Beacon street (city proper)	13 feet east of Charles street to Charles street.	Pine wood block.	Laid by B. E. Grant Company.	113	1921	Nov. 19, 1926.
Beacon street (city proper)	Charles street to 2 feet west of Charles street.	Pine wood block.	Laid by B. E. Grant Company.	2	1921	Nov. 19, 1926.
Beacon street (city proper)	2 feet west of Charles street to 6 feet west of Arlington street	(south side).	Trinidad asphalt.	2,107	1901	
Beacon street (city proper)	2 feet west of Charles street to east side of Brimmer street	(north side).	Trinidad asphalt.	2,000	1891	
Beacon street (city proper)	Easterly side of Brimmer street to 6 feet west of Arlington street	(north side).	American rock asphalt.	1,519	1908	
Beacon street (city proper)	6 feet west of Arlington street to 5 feet east of Dartmouth street.	Sicilian rock asphalt.	Laid by Boston Asphalt Company.	9,906	1900-01	
Beacon street (city proper)	5 feet east of Dartmouth street to easterly side of Hereford street.	Trinidad asphalt.	Laid by Barber Asphalt Paving Company.	12,134	1909	

Beacon street (city proper)	Easterly side of Hereford street to Massachusetts avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	703	3,754	1907
Beacon street (city proper)	At Massachusetts avenue. Bitulithic. Laid by Warren Brothers Company.	.....	6	1902
Beacon street (city proper)	Massachusetts avenue to east side of Charlesgate West. Pine wood block. Laid by James Doherty.	922	4,908	1920 Sept. 11, 1925.
Beacon street (Roxbury)	East side of Charlesgate West to 10 feet east of Raleigh street. Pine wood block. Laid by James Doherty.	595	3,138	1920 Sept. 11, 1925.
Beacon street (Roxbury)	10 feet east of Raleigh street to east side of bridge over the Boston & Albany Railroad. Aztec asphalt. Laid by Bernudez Company.	1,548	8,040	1917-18 June 1, 1923.
Beacon street (Brighton)	Brookline line to 10 feet east of east side of Cleveland circle. Asphalt concrete (macadam base). Laid by John J. Lane.	446	4,060	1921 Oct. 13, 1926.
Beacon street (Brighton)	10 feet east of east side of Cleveland circle to 94 feet west of Cleveland circle. Asphalt concrete. Laid by John J. Lane.	447	6,137	1921 Oct. 13, 1926.
Beacon street (Brighton)	94 feet west of Cleveland circle, 1,011 feet west of east street line of Reservoir lane. Concrete road (25 feet wide). Laid by city force.	3,189	8,858	1917
Beacon street (Brighton)	1,011 feet west of east street line of Reservoir lane to Newton line. Concrete road. Laid by city force.	2,308	6,411	1916
Beaver street (city proper)	At Beacon street. American rock asphalt. Laid by Jones & Meelan	1	3	1908
Beech street (West Roxbury)	Belgrade avenue at 15 feet north to north side of West Roxbury parkway. Topeka. Laid by Rowe Contracting Company.	155	689	1920 May 4, 1926.
Beech street (West Roxbury)	North side West Roxbury parkway to 13 feet south of Belgrade street. Topeka (macadam base). Laid by Rowe Contracting Company	541	1,343	1921 May 4, 1926.
Belfort street (Dorchester)	At Dorchester avenue. Pine wood block. Laid by William J. Barry.	10	31	1919 Aug. 21, 1924.
Belgrade avenue (West Roxbury)	287 feet west of Rexham street across Anawan avenue. Topeka (macadam base). Laid by Rowe Contracting Company.	611	1,764	1920 April 22, 1926.
Belgrade avenue (West Roxbury)	Anawan avenue to bridge over New York, New Haven & Hartford Railroad. Topeka. Laid by Rowe Contracting Company.	979	3,663	1920 April 22, 1926.
Belgrade avenue (West Roxbury)	Bridge over New York, New Haven & Hartford Railroad to Centre street. Topeka. Laid by Rowe Contracting Company.	307	1,050	1921 April 22, 1926.

List of Streets Having a Smooth Pavement — Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Bellevue street (West Roxbury).....	Centre street to 29 feet east of Centre street. Topeka. Laid by Rowe Contracting Company.	29	97	1921	Aug. 26, 1926.
Bellevue street (West Roxbury).....	At Oriole street. Asphalt concrete. Laid by Martino DeMatteo.....	.....	54	1921	July 8, 1926.
Bellevue street (West Roxbury).....	29 feet east of Centre street to 114 feet east of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	85	235	1921	Aug. 26, 1926.
Belvidere street (city proper and Roxbury).	West Newton street to 3 feet east of Massachusetts avenue. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	1,324	4,025	1902-03	
Belvidere street (Roxbury).....	3 feet east of Massachusetts avenue to Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	3	12	1901	
Bellvista road (Brighton).....	Allston street to Brookline line. Acme asphalt. Laid by John F. Lynch....	890	2,473	1919	June 24, 1924.
Bennet street (city proper).....	Ash street to 9 feet west of Harrison avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	239	452	1905	
Bennett street (Brighton).....	Market street to 65 feet west of Market street. Simasco. Laid by Simpson Brothers, Inc.	65	211	1921	June 20, 1926.
Bennington street (East Boston).....	At Chelsea street. Aztec asphalt (macadam base). Laid by Bermudez Company.	.....	50	1919	May 1, 1924.
Bennington street (East Boston).....	Bridge over Boston & Albany Railroad. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	60	507	1906	
Bennington street (East Boston).....	Bridge over Boston, Revere Beach & Lynn Railroad. North roadway. Pine wood block (plank base). Laid by John B. Dolan.	70	187	1921	†
Bentham road (Dorchester).....	Mt. Ida road to 7 feet west of Mt. Ida road. Aztec asphalt. Laid by McGuire & McGourty.	7	21	1919	Dec. 26, 1924.
Bentham road (Dorchester).....	7 feet west of Mt. Ida road to 30 feet west of Mt. Ida road. Aztec asphalt (macadam base). Laid by McGuire & McGourty.	.....	6	1919	Dec. 26, 1924.

				1906-07	
Benton street (Roxbury).....	At Columbus avenue. Bermudez asphalt. Laid by Boston Asphalt Com- pany.	26	69	1920	Sept. 18, 1925.
Berkeley street (city proper).....	Tremont street to 12 feet north of Tremont street. Asphalt. Laid by B. E. Grant Company.	12	140	1906	
Berkeley street (city proper).....	12 feet north of Tremont street to Columbus avenue. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	1,183	4,555	1906	
Berkeley street (city proper).....	150 feet south of Boylston street to 38 feet south of Boylston street. (East side.) Trinidad asphalt. Laid by Barber Asphalt Paving Company, (West side.) Trinidad asphalt. Laid by Barber Asphalt Paving Company,	118 {	191 200	1906 1902	
Berkeley street (city proper).....	35 feet south of Boylston street to 15 feet south of Boylston street. Trinidad asphalt. Laid by Coleman Brothers.	23	52	1914	
Berkeley street (city proper).....	15 feet south of Boylston street to Boylston street. Pine wood block. Laid by Coleman Brothers.	15	61	1914	
Berkeley street (city proper).....	Boylston street to 15 feet north of Boylston street. Pine wood block. Laid by Coleman Brothers.	15	59	1914	
Berkeley street (city proper).....	15 feet north of Boylston street to 119 feet north of Boylston street. Bitu- lithic (crushed stone base). Laid by Coleman Brothers in 1914; Warren Brothers in 1903.	104 {	417 32	1914 1903	
Berkeley street (city proper).....	119 feet north of Boylston street to south street line of Newbury street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	136	603	1903	
Berkeley street (city proper).....	South street line of Newbury street to 74 feet north of Newbury street. Bitulithic. (macadam base). Laid by Warren Brothers Company.	122	542	1919	June 4, 1924.
Berkeley street (city proper).....	74 feet north of Newbury street to south street line of Commonwealth ave- nue. Bitulithic (crushed stone base). Laid by Warren Brothers Com- pany.	191	847	1903	
Berkeley street (city proper).....	South street line of Commonwealth avenue to north street line of Common- wealth avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	200	879	1916	
Berkeley street (city proper).....	North street line of Commonwealth avenue to 3 feet south of Marlborough street. Bitulithic (crushed stone base). Laid by Warren Brothers Com- pany.	262	1,164	1903	

List of Streets Having a Smooth Pavement — Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Berkeley street (city proper).....	3 feet south of Marlborough street to Marlborough street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	3	15	1901	
Berkeley street (city proper).....	Marlborough street to 2 feet north of Marlborough street. Stielian rock asphalt. Laid by Boston Asphalt Company.	2	10	1901	
Berkeley street (city proper).....	2 feet north of Marlborough street to Beacon street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	262	1,164	1903	
Bernard street (Dorchester).....	At Talbot avenue (crosswalks). Mack brick block. Laid by James Doherty.	23	155	1911	
Bexley road (West Roxbury).....	Washington street to Florence street. Texro asphalt. Laid by McGuire & McGourty.	746	2,160	1919	Aug. 2, 1924.
Bickford street (Roxbury).....	At Heath street. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	23	1910	
Bickford street (Roxbury).....	At Centre street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	16	50	1921	Unfinished.
Bigelow street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	9	85	1920	July 8, 1925.
Bigelow street (Brighton).....	At Brooks street. Asphalt (macadam base). Laid by city forces.....	11	28	1921	
Binney street (Roxbury).....	At Longwood avenue. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	32	1910	
Birch street (West Roxbury).....	Penfield street to 6 feet east of Albano street. Bitulithic. Laid by A. H. Archer.	346	898	1915	
Birch street (West Roxbury).....	6 feet west of Albano street to 416 feet west of Albano street. Bitulithic. Laid by A. H. Archer.	410	1,048	1915	
Bird street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	29	1910-11	

Blagden street (city proper).....	Huntington avenue to Exeter street. Bitulithic. Laid by Fred S. & A. D. Gore Corporation.	489	1,882	1912	
Blake street (Dorchester and Hyde Park).	North side of Randolph road to 109 feet south of Randolph road. Mexican asphalt. Laid by Central Construction Company.	148	415	1917	July 20, 1922.
Blakeville street (Dorchester).....	At Bowdoin street. Topeka (macadam base). Laid by city force.....	13	33	1919	
Blanford street (Roxbury).....	At Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	14	45	1917	May 21, 1923.
Bloomfield street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces.	1	6	1920	
Blossom street (city proper).....	10 feet north of Cambridge street to 1 foot south of Parkman street. Asphalt (macadam base). Laid by Rowe Contracting Company.	362	1,044	1921	†
Blossom street (city proper).....	1 foot south of Parkman street to Parkman street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1	3	1898	
Blossom street (city proper).....	Parkman street to Allen street. Acme asphalt. Laid by Warren Brothers Company.....	508 {	1,237	1917	Nov. 15, 1922.
	Bessemer brick block gutters. Laid by Warren Brothers Company.....		261	1917	Nov. 15, 1922.
Blue Hill avenue (Roxbury).....	At Dudley street. Mack brick block. Laid by James Doherty.....	9	41	1910	
Blue Hill avenue (Roxbury).....	9 feet south of Dewey street to 12 feet north of Savin street, east side. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	.....	742	1917	†
	West side. Mexican asphalt.....	577	730	1919	†
Blue Hill avenue (Roxbury).....	Brunswick street to north side of Devon street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	199	509	1906	
Blue Hill avenue (Roxbury).....	West side at Seaver street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	.....	346	1917	Sept. 17, 1922.
Blue Hill avenue (Roxbury).....	East roadway. 86 feet north of Seaver street to 80 feet south of Seaver street. Asphalt concrete (Telford macadam base). Laid by Simpson Brothers Corporation.	196	895	1921	Aug. 13, 1926.
Blue Hill avenue (Dorchester).....	East roadway. 80 feet south of Seaver street to 109 feet south of Seaver street. Asphalt concrete (Telford macadam base). Laid by Simpson Brothers Corporation.	29	150	1921	Aug. 13, 1926.

List of Streets Having a Smooth Pavement.— Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Blue Hill avenue (Dorchester).....	At Baird street. Bitulithic (macadam base). Laid by Warren Brothers Company.	.....	148	1919	May 26, 1924.
Blue Hill avenue (Dorchester).....	At Arbutus street. Topeka (macadam base). Laid by Martino deMatteo.	.....	21	1921	May 17, 1926.
Blue Hill avenue (Dorchester).....	At Wilcock street. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	40	1920	July 7, 1925.
Blue Hill avenue (Dorchester).....	At Havelock street. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	42	1920	July 28, 1925.
Blue Hill avenue (Dorchester).....	At Babson street. Bitulithic (macadam base). Laid by Warren Brothers Company.	.....	133	1918	Nov. 4, 1923.
Blue Hill avenue (Dorchester).....	At Walk Hill street. Mexican asphalt (macadam base). Laid by Martino DeMatteo.	.....	981	1919	June 18, 1924.
Blue Hill avenue (Dorchester).....	Bridge over Neponset river, Pine wood block. Laid by Massachusetts Public Works Department (Park).	20	133	1903	
Boardman street (East Boston).....	At Saratoga street. Standard asphalt. Laid by Bernudez Company.....	8	51	1918	May 1, 1924.
Bolton street (South Boston).....	Bridge over New York, New Haven & Hartford Railroad. Pine wood block. Laid by Central Construction Company.	64	92	1918	†
Bolton street (South Boston).....	C street to D street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	501	724	1905	
Bond street (city proper).....	Hanson street to Milford street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	182	404	1895	
Bosworth street (city proper).....	At Tremont street. Pine wood block. Laid by Coleman Brothers.....	13	28	1915	
Bowdoin street (city proper).....	Beacon street to south side of Ashburton place. Canton block. Brick block.	380	1,013	1902	
Bowdoin street (city proper).....	North side of Ashburton place to 17 feet south of Cambridge street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	837	2,205	1902	

Bowdoin street (Dorchester).....	8 feet west of east side of Geneva avenue to 24 feet west of Topliff street. Topeka. Each side of tracks macadam base. Laid by city force.	865	2,418	1919	
Bowdoin street (Dorchester).....	24 feet west of Topliff street to 77 feet west of Mt. Ida road. Aztec asphalt (macadam base). Laid by Bermudez Company.	1,157	3,087	1919	May 9, 1924.
Bowdoin street (Dorchester).....	Topeka (macadam base at Cottage Park). Laid by city force.	.....	77	1919	
Bowdoin street (Dorchester).....	77 feet west of Mt. Ida road to 2 feet east of west side of Quincy street. Pine wood block. Laid by James Doherty.	385	1,881	1909	
Bowdoin street (Dorchester).....	2 feet east of west side of Quincy street to 96 feet west of Winter street (east side tracks). Topeka (macadam base). Laid by city force.	1,033	3,832	1918	
Bowdoin street (Dorchester).....	At Tovar street. Aztec asphalt. Laid by McGuire & McGourty.	.....	25	1919	Nov. 17, 1924.
Bowdoin street (Dorchester).....	96 feet west of Winter street to Hancock street. Mack brick block. Laid by Central Construction Company.	310	{ 1,438 993 }	1910-11 1913	
Bowdoin street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.	14	100	1912	
Bowen street (South Boston).....	C street to D street. Sicilian rock asphalt. Laid by Jones & Meehan.	509	735	1901	
Bowen street (South Boston).....	D street to E street. Sicilian rock asphalt. Laid by Jones & Meehan.	514	742	1901	
Bowen street (South Boston).....	E street to F street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	500	722	1903	
Bowen street (South Boston).....	At Dorchester street. Bitulithic. Laid by Samuel J. Tomascello.	4	6	1921	Aug. 31, 1926.
* Boylston road (Roxbury).....	Boston & Albany Railroad Bridge to Hemenway street. Back Bay Fens. Bitulithic (macadam base). Laid by Warren Brothers Company.	1,100	8,253	1918	Aug. 15, 1923.
Boylston street (city proper).....	Washington street to Tremont street. Pine wood block. Laid by Warren Brothers Company.	479	2,000	1917	Aug. 15, 1922.
Boylston street (city proper).....	Tremont street to 9 feet west of Tremont street. Pine wood block. Laid by Bernard E. Grant.	9	40	1917	Nov. 15, 1922.
Boylston street (city proper).....	North side of Tremont street to Charles street. Pine wood block. Laid by James Doherty.	.....	1,437	1920	Oct. 16, 1925.
Boylston street (city proper).....	9 feet west of Tremont street to the West street line of Boylston place. Pine wood block. Laid by Fred S. Gore.	360	809	1915	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Boylston street (city proper).....	West street line of Boylston place to 89 feet east of Carver street. Pine wood block. Laid by United States Wood Preserving Company.	155	487	1901	
Boylston street (city proper).....	89 feet east of Carver street, to Arlington street. Pine wood block. Laid by Clark & Gore.	1,134	7,923	1915	
Boylston street (city proper).....	Arlington street, across Berkeley street. Pine wood block. Laid by Coleman Brothers	273	1,220	1914	
Boylston street (city proper).....	Berkeley street, across Clarendon street. Pine wood block. Laid by Coleman Brothers.	612	3,390	1914	
Boylston street (city proper).....	At Huntington avenue. Bitulithic. Laid by Coleman Brothers.....	.....	68	1914	
Boylston street (city proper).....	Clarendon street, across Dartmouth street. Pine wood block. Laid by Coleman Brothers.	650	3,543	1914	
Boylston street (city proper).....	Dartmouth street to east side of Exeter street. Pine wood block. Laid by Coleman Brothers.	548	3,044	1914	
Boylston street (city proper).....	At Exeter street (in tracks). Pine wood block. Laid by Coleman Brothers	.....	68	1914	
Boylston street (city proper).....	East side of Exeter street to 107 feet west of Exeter street. Bitulithic. Laid by Coleman Brothers.	144	327	1914	
Boylston street (city proper).....	Bitulithic. Laid by Warren Brothers Company.....	.....	90	1919	June 4, 1924.
Boylston street (city proper and Roxbury).	107 feet west of Exeter street to 8 feet east of Hereford street. Bitulithic. Laid by Warren Brothers Company.	1,501	5,481	1913	
Boylston street (Roxbury).....	14 feet west of St. Cecilia street to 90 feet east of Massachusetts avenue. (south side). Aztec asphalt. Laid by James Doherty.	.....	242	1919	Aug. 30, 1924.
Boylston street (Roxbury).....	90 feet east of Massachusetts avenue to 40 feet east of Massachusetts avenue. Aztec asphalt. Laid by James Doherty.	50	165	1919	Aug. 30, 1924.
Boylston street (Roxbury).....	40 feet east of Massachusetts avenue to 5 feet east of Massachusetts avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	35	140	1904	

Boylston street (Roxbury).....	5 feet east of Massachusetts avenue to Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	5	17	1901
Boylston street (Roxbury).....	Massachusetts avenue to 3 feet west of Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	3	12	1901
Boylston street (Roxbury).....	3 feet west of Massachusetts avenue to westerly street line of Hemenway street. Bitulithic crushed stone base. Laid by Warren Brothers Company.	387	1,384	1905
* Boylston street (Roxbury) (Fens)....	Easterly side Gaston square (both main and side drives) to Audubon road and on Audubon road to Agassiz road. Bitulithic (macadam base). Laid by Warren Brothers Company.	2,700	9,996	Aug. 10, 1925.
Boylston street (West Roxbury).....	26 feet east of Amory street to Amory street. Mexican asphalt. Laid by Central Construction Company.	26	85	1919
Boylston street (West Roxbury).....	Amory street to 51 feet west of Amory street. Mexican asphalt. Laid by Central Construction Company.	51	318	1919
Boylston street (West Roxbury).....	At Centre street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	13	61	1921
Boylston street (West Roxbury).....	At South street. Aztec asphalt (macadam base). Laid by Bermudez Company.	3	9	1918
Brackett street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	30	1920
Braddock park (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906-07
Bradford street (city proper).....	Walham street to Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	583	1,233	1897
Bradfield avenue (West Roxbury).....	At Centre street. Asphalt. Laid by the Bermudez Company.....	15	44	1920
Bradlee street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	3	11	1913
Bradwood street (West Roxbury).....	At Belgrade avenue. Topeka (macadam base). Laid by Rowe Contracting Company.	43	237	1920
Bragdon street (Roxbury).....	Columbus avenue to 16 feet west of Columbus avenue. Asphalt concrete (macadam base). Laid by Simpson Brothers Corporation.	16	57	Aug. 9, 1926.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area Square Yards.	Year Laid.	Guaranty Expires.
Brattle square (city proper).....	7 feet north of Brattle street to 6 feet south of Elm street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	268	683	1888	
Bray street (Roxbury).....	Columbus avenue to 13 feet east of Columbus avenue. Asphalt concrete (macadam base). Laid by Simpson Brothers Corporation.	13	40	1921	Aug. 9, 1926.
Breck avenue (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	38	1920	July 8, 1925.
Bremen street (East Boston).....	22 feet west of Saratoga street to Saratoga street. Aztec asphalt. Laid by Bermudez Company.	22	82	1919	May 1, 1924.
Bremen street (East Boston).....	Saratoga street to 20 feet east of Saratoga street. Aztec asphalt. Laid by Bermudez Company.	20	72	1919	May 1, 1924.
Brent street (Dorchester).....	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	10	33	1918	Sept. 25, 1923.
Brenton street (Dorchester).....	Greenwood street to Glenway street. Bitulithic. Laid by Warren Brothers Company.	318	923	1921	July 13, 1926.
Brighton avenue (Brighton).....	Street line of Commonwealth avenue to 2 feet east of Harvard avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	1,895	9,284	1917	Dec. 7, 1922.
Brighton avenue (Brighton).....	2 feet east of Harvard avenue to 1 foot west of Harvard avenue. Bitulithic. Laid by Coleman Brothers.....	37	230	1914	
Brighton avenue (Brighton).....	Pine wood block (street car tracks). Laid by Coleman Brothers.....	6	89	1914	
Brighton avenue (Brighton).....	1 foot west of Harvard avenue to 2 feet east of Islington street. Aztec as- phalt (macadam base). Laid by Bermudez Company.	1,243	5,982	1917	Dec. 7, 1922.
Brighton avenue (Brighton).....	At Islington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	.....	35	1919	Sept. 4, 1924.
Brighton avenue (Brighton).....	2 feet east of Islington street to Cambridge street. Aztec asphalt (macadam base). Laid by Bermudez Company.	.....	620	1917	Dec. 7, 1922.
Brighton avenue (Brighton).....	Bitulithic (macadam base). Laid by Warren Brothers Company.....	300	1,846	1919	Sept. 4, 1924

Brighton street (city proper).....	Between Leverett street and Poplar street (not including next item). Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	599	809	1892
Brighton street (city proper).....	Between Leverett street and Chambers street. Acme asphalt. Laid by Warren Brothers Company.	.....	523	1908
Brighton street (city proper).....	Poplar street to 7 feet north of Allen street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	233	488	1892
Brighton street (city proper).....	7 feet north of Allen street to Allen street. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	7	27	1917 ‡
Brimmer street (city proper).....	Beacon street to center of Byron street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	116	322	1895
Brimmer street (city proper) ^b	Center of Byron street to Chestnut street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	180	536	1906
Brimmer street (city proper).....	Chestnut street to Pineknay street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	791	2,442	1895
Brinsley street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	5	26	1912
Broadway (city proper).....	Park square to Eliot street. Black gum wood block. Laid by United States Wood Preserving Company.	93	425	1907
Broadway (city proper).....	Eliot street to Tremont street. Pine wood block. Laid by Coleman Brothers.	964	4,405	1913-14
Broadway (city proper).....	Bridge over Boston Elevated Railway. Pine wood block. Laid by Coleman Brothers.	55	244	1913
Broadway (city proper).....	Shawmut avenue to Washington street. Pine wood block. Laid by Coleman Brothers.	408	1,346	1913
Broadway (city proper).....	Laid by city force.....	.....	571	1919
Broadway (city proper).....	Bridge over Boston & Albany Railroad. Jennison Wright wood block. Laid by Boston Bridge Works.	210	812	1919 ‡
Broadway (city proper).....	106 feet west of Albany street to Albany street. Pine wood block. Laid by New York, New Haven & Hartford Railroad Company.	106	611	1913
Broadway (city proper and South Boston).	Drawbridge over Fort Point channel. Pine wood block. Laid by Boston Bridge Works.	210	934	1914

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Bromfield street (city proper).....	At Tremont street. Pine wood block. Laid by Coleman Brothers.....	12	31	1915	
Brookline avenue (Roxbury).....	Beacon street to 29 feet north of Newbury street. Aztec asphalt (macadam base.) Laid by Bernudez Company.	306	1,473	1918	June 1, 1923.
Brookline avenue (Roxbury).....	Bridge over Boston & Albany Railroad. Pine wood block. Laid by Michael Mehan.	87	248	1919	‡
Brooks street (Brighton).....	Faneuil street to 6 feet north of Hobart street. Asphalt. Laid by city forces.	1,160	3,304	1921	
Brooks street (Brighton).....	Bridge over Boston & Albany Railroad (central roadway). Sicilian rock asphalt. Laid by Boston Asphalt Company.	.....	130	1902	
Brooks street (East Boston).....	Each side of Chelsea street. Asphalt concrete (macadam base). Laid by Coleman Brothers, Inc.	18	73	1921	July 19, 1926.
Brookside avenue (West Roxbury)....	At Green street. Topeka. Laid by Central Construction Company.....	6	19	1919	Dec. 6, 1924.
Brookview street (Dorchester).....	At Harvard street. Topeka. Laid by Rowe Contracting Company.....	12	47	1920	June 1, 1925.
Browning avenue (Dorchester).....	Bernard street to Wales street. Bitulithic. Laid by H. J. McGuire.....	791	2,284	1914	
Brunswick street (Roxbury and Dorchester).	Blue Hill avenue to Normandy street. Aztec asphalt. Laid by Central Construction Company.	638	1,849	1916	
Buckingham street (city proper).....	Clarendon street to 103 feet south of Clarendon street. Asphalt. Laid by John McCourt Company.	103	435	1921	‡
Buckminster street (Brighton).....	Commonwealth avenue to Allston Street Playground. Topeka. Laid by Doménick Vozzella Company.	500	1,449	1919	Nov. 28, 1924.
Bunker Hill street (Charlestown).....	At Tufts street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	.....	161	1897	
Burke street (Roxbury).....	At Columbus avenue. Bermudez asphalt. Laid by Boston Asphalt Company.	26	66	1906	

Burney street (Roxbury).....	At Tremont street. Bitulithic. Crushed stone base. Laid by Warren Brothers Company.	3	9	1902
Burroughs street (West Roxbury).....	At Centre street. Bitulithic. Laid by Warren Brothers Company.....	2	12	1913
Byron street (East Boston).....	8 feet south of Saratoga street to Saratoga street. Standard asphalt. Laid by Bernudez Company.	8	32	1918 May 1, 1924.
Byron street (East Boston).....	Saratoga street to 8 feet west of Saratoga street. Standard asphalt. Laid by Bernudez Company.	8	86	1918 May 1, 1924.
C street (South Boston).....	13 feet northeast of West Broadway to West Broadway. Acme asphalt. Laid by Warren Brothers Company..... Bessener brick block gutters. Laid by Warren Brothers Company.....	13 {	44 7	1917 1917 Oct. 18, 1922. Oct. 18, 1922.
Cabot street (Roxbury).....	154 feet west of Tremont street to Ruggles street. Trinidad asphalt. Laid by Barber Asphalt Paving Company. At Windsor street. Topeka. Laid by Central Construction Company.....	1,236	3,541	1891 1919 July 9, 1924.
Cabot street (Roxbury).....	Easterly side of Ruggles street to 7 feet of east Vernon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	716	2,967	1892
Cabot street (Roxbury).....	7 feet east of Vernon street to 7 feet north of Linden Park street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	477	1,376	1897
Cabot street (Roxbury).....	7 feet north of Linden Park street to Linden Park street. Mack brick block. Laid by J. E. Burns & Co.	7	35	1909
Callender street (Dorchester).....	51 feet west of Carlos street to 17 feet east of Blue Hill avenue. Trinidad asphalt. Laid by D. M. Biggs & Co.	1,241	3,988	1915
Cambridge street (Brighton).....	West abutment bridge over Charles river to bridge over Boston & Albany Railroad. Asphalt. Laid by city forces.	4,116	11,895	1921
Cambridge street (Brighton).....	At Brighton avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	.....	250	1917 Dec. 7, 1922.
Cambridge street (Brighton).....	163 feet east of North Beacon street to 65 feet west of North Beacon street. Bitulithic. Laid by Warren Brothers Company, north side..... South side.....	305	409 154	1918 1919 Dec. 24, 1923. May 27, 1924.
Cambridge street (Brighton).....	65 feet west of North Beacon street to 231 feet west of Elko street. Bitulithic (macadam base). Laid by Warren Brothers Company.	3,637	17,891	1919 Sept. 4, 1924.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Cambridge street (Brighton).....	231 feet west of Elko street to Washington street. Bitulithic. Laid by Warren Brothers Company.	169	1,375	1913	
Cambridge street (Brighton).....	(Brows to street car rails.) Pine wood block. Laid by Warren Brothers Company.	.....	38	1913	
Cambridge street (Brighton).....	At east side Imrie road. Asphalt concrete. (Macadam base.) Laid by Charles M. Callahan.	.....	4	1921	Aug. 2, 1926.
Camden street (city proper).....	Both sides of Columbus avenue (crosswalks). Bermudez asphalt. Laid by Boston Asphalt Company.	18	68	1906	
Cameron street (Dorchester).....	Hancock street to 537 feet southwest of Hancock street. Aztec asphalt. Laid by McGuire & McGourty.	537	1,550	1919	Nov. 18, 1924.
Capen street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	8	25	1914	†
Carleton street (city proper).....	At West Newton street. Bitulithic. Laid by Central Construction Company	2	4	1917	†
Carlow street (Roxbury).....	At Albany street. Mexican asphalt. Laid by Bermudez Company.....	1	2	1918	†
Carnel street (Roxbury).....	Tremont street to Delle avenue. Bitulithic. Laid by Warren Brothers Company.	250	583	1918	April 29, 1923.
Carolina avenue (West Roxbury).....	At South street. Bitulithic. Laid by Warren Brothers Company.....	1	3	1913	
Carver street (city proper).....	Boylston street to 12 feet south of Boylston street. Pine wood block. Laid by Clark & Gore.	12	27	1915	
Carver street (city proper).....	14 feet north of Broadway to Broadway. Pine wood block. Laid by Coleman Brothers.	14	63	1913	
Castlegate road (Roxbury).....	Normandy street to Blue Hill avenue. Asphalt. Laid by Rowe Contracting Company.	435	1,258	1921	†
Cazenove street (city proper).....	Columbus avenue to 45 feet southerly; also the intersection of Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	45	134	1899	

Cazenove street (city proper).....	At Chandler street. Acme asphalt (macadam base). Laid by Warren Brothers Company.....	3 {	5	1916
Cadrie street (Roxbury).....	Bessemer brick block gutters. Laid by Warren Brothers Company.....	610	1,356	1916
Central avenue (Hyde Park).....	Magazine street to Langdon street. Aztec asphalt. Laid by Central Construction Company.	11	34	Sept. 9, 1926.
Central street (city proper).....	At River street. Topeka (macadam base). Laid by Central Construction Company.	287	824	1911
Central street (city proper).....	8 feet west of Broad street to 21 feet east of Kilby street. Acme asphalt. Laid by Warren Brothers Company.	14	40	†
Central street (city proper).....	21 feet east of Kilby street to 7 feet east of Kilby street. Aztec asphalt. Laid by James Doherty.	7	21	Oct. 10, 1924.
Centre street (Dorchester).....	7 feet east of Kilby street to Kilby street. Pine wood block. Laid by James Doherty.	70	255	1913
Centre street (Roxbury).....	70 feet east of Washington street to Washington street. Pine wood block. Laid by William J. Barry.	1,774	2,965	Unfinished.
Centre street (Roxbury and West Roxbury).....	28 feet west of Parker street across Forbes street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	.....	659	Dec. 22, 1925.
Centre street (West Roxbury).....	Forbes street to 244 feet east of Barbara street, south side. Topeka (macadam base). Laid by Central Construction Company.	507	1,447	Unfinished.
Centre street (West Roxbury).....	264 feet east of Barbara street to 6 feet east of Boylston street. Topeka (macadam base). Laid by Central Construction Company.	884	2,685	Dec. 22, 1925.
Centre street (West Roxbury).....	6 feet east of Boylston street to 15 feet west of Boylston street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	53	133	Unfinished.
Centre street (West Roxbury).....	15 feet west of Boylston street to 27 feet west of Lockstead avenue. Asphalt concrete. Laid by B. E. Grant Company.	848	2,478	Unfinished.
Centre street (West Roxbury) (west side).	27 feet west of Lockstead avenue to 104 feet west of Lockstead avenue. Asphalt concrete. Laid by B. E. Grant Company.	77	113	Unfinished.
Centre street (West Roxbury) (near Pond street).	Southerly car tracks. Concrete pavement. Maintained by Boston Elevated Railway Company.	.....	151	1921

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Centre street (West Roxbury).....	At Green street. tion Company.	.....	96	1921	June 3, 1926.
Centre street (West Roxbury).....	Green street to 14 feet west of Eliot street. Bitulthic. Laid by Warren Brothers Company. Pine wood block. (Brows to street car rails.) Laid by Warren Brothers Company.	1,366 { }	5,248 283	1913 1913	
Centre street (West Roxbury).....	14 feet west of Eliot street to 23 feet west of Allandale street. Topeka (mac- adam base). Laid by Rowe Contracting Company.	5,535	23,068	1919	Aug. 12, 1924.
Centre street (West Roxbury).....	23 feet south of Allandale street to 106 feet east of Church street. Asphalt (macadam base). Laid by the Bermudez Company.	6,498 { }	16,602 324	1920 1921	May 5, 1926. May 5, 1926.
Centre street (West Roxbury).....	106 feet east of Church street to 64 feet east of Manthorne road. Topeka. Laid by Rowe Contracting Company.	1,464	9,828	1920	Aug. 26, 1926.
Centre street (West Roxbury).....	64 feet east of Manthorne road to 58 feet south of Spring street. Topeka. Laid by Rowe Contracting Company.	4,869	23,938	1921	Aug. 26, 1926.
Centre street (West Roxbury).....	58 feet south of Spring street to 151 feet south of Spring street. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	90	1921	Aug. 26, 1926.
Centervale park (Dorchester).....	Bourneside street to Upland avenue. Aztec asphalt. Laid by Central Con- struction Company.	515	2,219	1916	
Chambers street (city proper).....	Green street, across Poplar street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	460	1,022	1902	
Chambers street (city proper).....	Brighton street to 6 feet west of Auburn street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	152	337	1895	
Chambers street (city proper).....	6 feet west of Auburn street to 8 feet east of Charles street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	112	249	1895	
Champney street (Brighton).....	At Justin road. Mexican asphalt. Laid by Central Construction Company.	7	29	1919	April 29, 1924.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
* Charlesgate East (Roxbury).....	Commonwealth avenue to Boston & Albany Railroad. Bitulithic (macadam base). Laid by Warren Brothers Company.	341	972	1918	Aug. 15, 1923.
* Charlesgate West (Roxbury).....	Beacon street to Commonwealth avenue, Back Bay Fens. Bitulithic (macadam base). Laid by Warren Brothers Company.	205	689	1918	Aug. 15, 1923.
* Charlesgate West (Roxbury).....	Commonwealth avenue to Boston & Albany Railroad Bridge, Back Bay Fens. Bitulithic (macadam base). Laid by Warren Brothers Company.	350	1,340	1918	Aug. 15, 1923.
* Charlesgate West (Roxbury).....	(Easterly branch) Commonwealth avenue to 172 feet southwest, near Newbury street. Bitulithic (macadam base). Laid by Warren Brothers Company.	172	607	1918	Aug. 15, 1923.
Charter street (city proper).....	Hanover street to 14 feet west of Hanover street. Sielian rock asphalt. Laid by Boston Asphalt Company.	14	50	1896	
Charter street (city proper).....	14 feet west of Hanover street, across Unity street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	306	615	1894	
Chase street (Dorchester).....	East Cottage street to Willis street. Trinidad asphalt. Laid by Central Construction Company.	307	856	1915	
Chauncy street (city proper).....	Summer street to 6 feet south of Summer street. Pine wood block. Laid by Northern Construction Company.	6	29	1915	†
Chelsea Bridge North (Charlestown)...	South side draw to Chelsea line. Jennison Wright pine. Wood block. Laid by Standard Engineering Company, Inc., Toledo, Ohio.	319	1,418	1919	
Chelsea street (East Boston).....	Maverick street to 8 feet north of Gove street. Asphalt concrete. Laid by Coleman Brothers, Inc.	621	3,456	1921	July 19, 1926.
Chelsea street (East Boston).....	8 feet north of Gove street across Prescott street. Asphalt concrete (macadam base). Laid by Coleman Brothers, Inc.	3,342	18,581	1921	July 19, 1926.
Chelsea street (East Boston).....	75 feet north of Bennington street to 165 feet north of Saratoga street. Aztec asphalt (macadam base). Laid by Bernudez Company.	604	1,540	1919	May 1, 1924.
	Aztec asphalt (at Saratoga street). Laid by Bernudez Company.....	.....	382	1919	May 1, 1924.

Cherokee street (Roxbury)	At Pontiac street. Asphalt concrete. Laid by John McCourt Company...	7	18	1921	June 28, 1926.
Cherry street (city proper)	7 feet west of Washington street to 8 feet east of Shawmut avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	319	567	1892	
Cherry street (city proper)	8 feet east of Shawmut avenue to Shawmut avenue. Stellan rock asphalt. Laid by Boston Asphalt Company.	8	14	1898	
Cheshire street (West Roxbury)	At Green street. Topeka. Laid by Central Construction Company.	7	17	1921	June 3, 1926.
Chester street (Brighton)	Commonwealth avenue to 20 feet north of Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	20	50	1917	May 21, 1923.
Chester street (Brighton)	10 feet south of Brighton avenue to Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	10	22	1917	Dec. 7, 1922.
Chester street (Brighton)	Brighton avenue to 10 feet north of Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	10	22	1917	Dec. 7, 1922.
Chestnut avenue (West Roxbury)	At Green street. Topeka. Laid by Central Construction Company.	6	15	1921	June 3, 1926.
Chestnut street (city proper)	At Brimmer street. Trinidad asphalt. Laid by Central Construction Company.	1	3	1915	
Chestnut street (city proper)	Charles street to 10 feet west of Charles street. Pine wood block. Laid by B. E. Grant Company.	10	32	1921	Nov. 19, 1926
Chestnut Hill avenue (Brighton)	At Washington street. Bitulithic. Laid by Warren Brothers Company.	4	20	1913	
Chestnut Hill avenue (Brighton)	Intersection of north roadway. Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	90	587	1918	May 21, 1923.
Chestnut Hill avenue (Brighton)	44 feet north of south side of Commonwealth avenue to Beacon street at Cleveland circle (west side). Asphalt concrete. Laid by John J. Lane. (East side). Asphalt concrete (macadam base). Laid by John J. Lane.	805	2,109	1921	Oct. 14, 1926.
Chestnut Hill avenue (Brighton)	Beacon street at Cleveland circle to Brookline line. Asphalt concrete. Laid by John J. Lane.	44	1,968	1921	Oct. 14, 1926.
Chestnut Hill avenue (Brighton)		110	463	1921	Oct. 14, 1926.
Child street (West Roxbury)	At South street. Bitulithic. Laid by Warren Brothers Company.	3	11	1913	
Chilmark street (Brighton)	At Commonwealth avenue. Pine wood block. Laid by Clark & Gore.	19	76	1915	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Chilton road (West Roxbury).....	Weld street to 407 feet northwest of Weld street. Asphalt. Laid by John T. Shea, Jr.	407	1,223	1921	Nov. 26, 1926.
Chipman street (Dorchester).....	At Norfolk street. Bithulithic. Laid by James Doherty.....	1	4	1913	
Chiswick road (Brighton).....	At Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	46	170	1918	May 21, 1923.
Church street (city proper).....	Boylston street to 55 feet south of Boylston street. Pine wood block. Laid by Clark & Gore.	55	193	1915	
Church street (city proper).....	55 feet south of Boylston street to 10 feet north of Providence street. Pine wood block. Laid by Coleman Brothers.	100	292	1913	
Church street (city proper).....	6 feet south of Fayette street to 6 feet north of Melrose street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	174	518	1911	
Church street (West Roxbury).....	Centre street to 10 feet north of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	10	33	1920	Aug. 26, 1926.
Church street (West Roxbury).....	10 feet north of Centre street to 46 feet north of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	36	106	1920	Aug. 26, 1926.
Claremont park (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906	
Clarendon street (city proper).....	Tremont street to 11 feet north of Tremont street. Asphalt. Laid by B. E. Grant Company.	.....	3	1920	Sept. 18, 1925.
Clarendon street (city proper).....	Unionite. Laid by B. E. Grant Company.....	11	47	1920	Sept. 18, 1925.
Clarendon street (city proper).....	11 feet north of Tremont street to 4 feet south of Warren avenue. Bithulithic. Laid by Warren Brothers Company.	320	1,422	1914	
Clarendon street (city proper).....	Each side of Warren avenue. Pine wood block. Laid by Boston Paving Company.	8	40	1913	

Clarendon street (city proper).....	4 feet north of Warren avenue to 5 feet south of Columbus avenue. Bitu- lithic. Laid by Warren Brothers Company.	855	3,806	1914
Clarendon street (city proper).....	5 feet south of Columbus avenue to Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	5	24	1906
Clarendon street (city proper).....	Columbus avenue to New York, New Haven & Hartford Railroad Bridge. Asphalt. Laid by John McCourt Company.	64	317	1921
Clarendon street (city proper).....	15 feet south of Boylston street to Boylston street. Pine wood block. Laid by Coleman Brothers.	15	60	1914
Clarendon street (city proper).....	Boylston street to 14 feet north of Boylston street. Pine wood block. Laid by Coleman Brothers.	14	56	1914
Clarendon street (city proper).....	14 feet north of Boylston street to 46 feet north of Boylston street. Bitu- lithic. Laid by Coleman Brothers.	32	101	1914
Clarendon street (city proper).....	46 feet north of Boylston street to 19 feet south of Newbury street. Bitu- lithic (crushed stone base). Laid by Warren Brothers Company.	202	839	1905
Clarendon street (city proper).....	19 feet south of Newbury street to 61 feet north of Newbury street. Bitu- lithic (macadam base). Laid by Warren Brothers Company.	116	467	1919
Clarendon street (city proper).....	61 feet north of Newbury street to south street line of Commonwealth ave- nue. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	203	816	1905
Clarendon street (city proper).....	South street line of Commonwealth avenue to north street line of Common- wealth avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	200	730	1916
Clarendon street (city proper).....	North street line of Commonwealth avenue to Beacon street. Bitulithic. Laid by Warren Brothers Company.	565	2,200	1905
Clark street (city proper).....	Hanover street to 18 feet east of Hanover street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	18	35	1896
Clark street (city proper).....	18 feet east of Hanover street to 8 feet west of North street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	293	566	1892
Clarkwood street (Dorchester).....	At Norfolk street. Bitulithic. Laid by Warren Brothers Company.	8	25	1918
Claybourne street (Dorchester).....	187 feet south of Dakota street to Park street. Bitulithic. Laid by James Doherty.	914	2,654	1915

June 4, 1924.

Nov. 4, 1923.

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List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Cleveland place (city proper).....	Margaret street to 192 feet northwest of Margaret street. Concrete (artificial stone). Laid by V. Grande.	192	293	1918	May 29, 1923.
Cobb street (city proper).....	9 feet west of Washington street to 9 feet east of Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	329	987	1897	
Cobb street (city proper).....	9 feet east of Shawmut avenue to Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	9	27	1898	
Collins street (Hyde Park).....	At Hyde Park avenue. Topeka. Laid by Martino DeMatteo.	34	153	1921	May 12, 1926.
Colonial avenue (Dorchester).....	Topeka (macadam base). Laid by Martino DeMatteo.	9	9	1921	May 12, 1926.
Columbia street (South Boston).....	At Talbot avenue. Brick block. Laid by James Doherty.	16	87	1911	
† Columbia road (Dorchester).....	At Hamlin street. Topeka (macadam base). Laid by John T. Shea, Jr.	.....	51	1920	Sept. 28, 1925.
† Columbia road (Dorchester).....	Bridge over New York, New Haven & Hartford Railroad. Metropolitan brick.	163	362	1903	
† Columbia road (Dorchester).....	Bridge over Shoreham street. Metropolitan brick.	59	131	1902	
* Columbia road (Dorchester).....	Edward Everett square to Sloughton street (east roadway). Bitulithic (macadam base). Laid by Warren Brothers Company.	1,416	4,444	1915	
Columbia road (Dorchester).....	83 feet south of Dudley street across Davenport avenue. Topeka (Telford macadam base). Laid by city force.	572	2,164	1919	
Columbia road (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	.....	210	1911	
* Columbia road (Dorchester).....	Mack brick block. Laid by city force.	.....	152	1918	
Columbia road (Dorchester).....	Hancock street to Blue Hill avenue (east roadway). Bitulithic (macadam base). Laid by Warren Brothers Company.	7,015	22,135	1915	
Columbia road (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.	20	68	1912	

		41	140	1921	Aug. 13, 1926.
Columbia road (Dorchester)	At Seaver street. Asphalt concrete (Telford macadam base). Laid by Simpson Brothers Corporation.				
Columbus avenue (city proper)	134 feet south of Arlington street to Boston & Albany Railroad Bridge. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	912	3,570	1904	
Columbus avenue (city proper)	Bridge over New York, New Haven & Hartford Railroad (in street car tracks). Metropolitan brick block. Laid by Boston Elevated Railway Company.	.....	149	1906	
Columbus avenue (city proper)	See Cazenove street.				
Columbus avenue (city proper)	Boston & Albany Railroad Bridge to northerly side of Camden street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	4,083	15,565	1906-07	
Columbus avenue (city proper)	At Clarendon street. Asphalt. Laid by John McCourt Company.	.....	177	1921	†
Columbus avenue (city proper and Roxbury)	Northerly side of Camden street to 67 feet north of Station street. Bermudez asphalt. Laid by Boston Asphalt Company.	3,846	15,579	1906-07	
Columbus avenue (Roxbury)	84 feet south of Centre street to 14 feet north of Washington street. Asphalt concrete (Telford macadam base). Laid by Simpson Brothers Corporation.	2,811	11,260	1921	Aug. 9, 1926.
Columbus avenue (Roxbury)	Washington street to 7 feet north of Walnut avenue. Asphalt concrete (Telford macadam base). Laid by Simpson Brothers Corporation.	1,218	4,870	1921	Aug. 9, 1926.
Columbus avenue (Roxbury)	7 feet north of Walnut avenue to Walnut avenue. Acme asphalt (macadam base). Laid by Warren Brothers Company.	7	45	1917	Sept. 17, 1922.
Columbus square (city proper)	Columbus avenue to 9 feet east of Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	46	1906	
Columbus square (city proper)	9 feet east of Columbus avenue to 4 feet east of Pembroke street. Bitulithie. Laid by Fred S. & A. D. Gore Corporation.	235	1,774	1912	
† Commonwealth avenue (city proper),	Arlington street to Berkeley street. Bitulithie (macadam base). Laid by Warren Brothers Company.	631	4,718	1916	
† Commonwealth avenue (city proper),	Berkeley street to Clarendon street. Bitulithie (macadam base). Laid by Warren Brothers Company.	580	4,340	1916	
† Commonwealth avenue (city proper),	Clarendon street to Dartmouth street. Bitulithie (macadam base). Laid by Warren Brothers Company.	575	4,015	1916	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
† Commonwealth avenue (city proper),	Dartmouth street to Exeter street. Bitulithic (macadam base). Laid by Warren Brothers Company.	555	3,857	1916	
† Commonwealth avenue (city proper),	Exeter street to Massachusetts avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	2,320	17,634	1916	
† Commonwealth avenue (Roxbury) . . .	Massachusetts avenue, across Charlesgate West. Bitulithic (macadam base). Laid by Warren Brothers Company.	1,107	8,340	1918	Nov. 1, 1923.
† Commonwealth avenue (Roxbury) . . .	Charlesgate West to street line of Beacon street. Bitulithic (macadam base). Laid by Warren Brothers Company. Asphalt block gutters. Laid by Warren Brothers Company. Aztec asphalt (macadam base). Laid by Bermudez Company.	908 { 7,443 693 533		1916 1918	June 1, 1923.
† Commonwealth avenue (Roxbury and Brighton).	Beacon street to Cottage Farm Bridge (north roadway). Fine wood block. Laid by Clark & Gore. (South roadway.) Mexican asphalt (macadam base). Laid by Central Construction Company.	3,802	19,592	1915	May 21, 1923.
† Commonwealth avenue (Brighton) . . .	Cottage Farm Bridge over Boston & Albany Railroad. Sicilian rock asphalt. Laid by Boston Asphalt Company.	140	1,556	1896	
† Commonwealth avenue (Brighton) . . .	Cottage Farm Bridge, across Brighton avenue (not including next two items), Mexican asphalt (macadam base). Laid by Central Construction Company.	3,591	26,243	1917-18	May 21, 1923.
† Commonwealth avenue (Brighton) . . .	At Babcock street. Topoka. Laid by Rowe Contracting Company.		15	1920	Dec. 6, 1925.
† Commonwealth avenue (Brighton) . . .	(South roadway.) 11 feet west of Winslow road to 210 feet west of Naples road. Endurite (macadam base). Laid by Warren Brothers Company.		1,577	1912	
† Commonwealth avenue (Brighton) . . .	Brighton avenue to Harvard avenue (side roads). Mexican asphalt (macadam base). Laid by Central Construction Company.	35	9,258	1917-18	May 21, 1923.
† Commonwealth avenue (Brighton) . . .	At Fuller street. Asphalt (macadam base). Laid by the Bermudez Company.		63	1920	

† Commonwealth avenue (Brighton)....	At Thorndike street. Asphalt concrete. Laid by Charles M. Callahan.	48	1921	June 22, 1922.
† Commonwealth avenue (Brighton)....	Harvard avenue to the east curb line of Allston street (side roads). Mexican asphalt (macadam base). Laid by Central Construction Company.	21	1917-18	May 21, 1923.
† Commonwealth avenue (Brighton)....	At Buckminster street. Topeka. Laid by Domenick Vozzella Company.	32	1919	Nov. 28, 1924.
† Commonwealth avenue (Brighton)....	West curb line of Allston street to the north street line of Warren street (side roads). Mexican asphalt (macadam base). Laid by Central Construction Company.	3,172	1917	May 21, 1923.
† Commonwealth avenue (Brighton)....	At Chestnut Hill avenue. Asphalt concrete (macadam base). Laid by John J. Lane.	123	1921	Oct. 14, 1926.
† Commonwealth avenue (Brighton)....	Asphalt concrete. Laid by John J. Lane.	12	1921	Oct. 14, 1926.
† Commonwealth avenue (Brighton)....	(Northerly roadway.) East street line Kinross road to east street line Chestnut Hill avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	3,693	1918	May 21, 1923.
† Commonwealth avenue (Brighton)....	Westerly street line Chestnut Hill avenue to Newton line (north road). Mexican asphalt (macadam base). Laid by Central Construction Company.	8,122	1917-18	May 21, 1923.
Compton street (city proper).....	At Tremont street. Topeka. Laid by Rowe Contracting Company.	13	1919	May 31, 1924.
Conant street (Roxbury).....	Parker street to Huntington avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	1,556	1919	Nov. 1, 1924.
Concord square (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.	15	1920	Sept. 18, 1925.
Concord square (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	1906	
Congress square (city proper).....	Congress street to 8 feet west of Congress street. Pine wood block. Laid by Coleman Brothers, Inc.	8	1921	Nov. 19, 1926.
Congress square (city proper).....	8 feet west of Congress street, across Congress square. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	201	1900	
Congress square (city proper).....	10 feet west of Congress street to Congress street. Pine wood block. Laid by Coleman Brothers, Inc.	10	1921	Nov. 19, 1926.
Congress street (city proper).....	State street to Post Office square. Pine wood block. Laid by Coleman Brothers, Inc.	466	1921	Nov. 19, 1926.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Congress street (city proper).....	Milk street to 9 feet south of Milk street. Pine wood block. Laid by Coleman Brothers, Inc.	9	48	1921	Nov. 19, 1926.
Congreve street (West Roxbury).....	At Centre street. Asphalt (macadam base). Laid by the Bermudez Company.	19	52	1920	May 5, 1926.
Cooper street (city proper).....	North Margin street to east side of Endicott street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	163	504	1887	
Cooper street (city proper).....	East side of Endicott street to 10 feet east of Washington Street North. Mexican asphalt. Laid by Central Construction Company.	231	680	1917	
Corbet street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	46	184	1914	
Corey street (Charlestown).....	124 feet north of Moulton street to Moulton street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	124	289	1897	
Corey street (West Roxbury).....	40 feet south of Centre street to 25 feet south of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	15	36	1921	Aug. 26, 1926.
Corey street (West Roxbury).....	25 feet south of Centre street to Centre street. Topeka. Laid by Rowe Contracting Company.	25	91	1921	Aug. 26, 1926.
Corey street (West Roxbury).....	Centre street to 10 feet north of Centre street. Topeka. Laid by Rowe Contracting Company.	10	31	1921	Aug. 26, 1926.
Cornhill court (city proper).....	At Washington street. Pine wood block. Laid by James Doherty.....	9	8	1908	
Corning street (city proper).....	Washington street to 8 feet east of Shawmut avenue. Acme asphalt. Laid by W Warren Brothers Company.	329	700	1908	
Corona street (Dorchester).....	At Geneva avenue and Bowdoin street. Mack brick. Laid by Central Construction Company.	10	27	1911	
Corona street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces,	1	3	1920	

		7	23	1919	Dec. 6, 1924.
Cornwall street (West Roxbury).....	At Amory street. Mexican asphalt (macadam base). Laid by Central Construction Company.				
Cortes street (city proper).....	At Arlington street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	8	20	1911	
Court avenue (city proper).....	At Washington street. Mack brick block.....	7	8	1910	
Court street (city proper).....	Washington street to 9 feet west of Washington street. Pine wood block. Laid by James Doherty.	9	27	1908	
Court street (city proper).....	9 feet west of Washington street to 5 feet east of Court square west. Asphalt. Laid by the Bernudez Company.	293	810	1920	‡
Court square (city proper).....	(East road) Court street to 35 feet south of Court street. Asphalt. Laid by the Bernudez Company.	35	79	1920	‡
Court square (city proper).....	(East road) 35 feet south of Court street to 20 feet north of Williams court. Acme asphalt. Laid by Warren Brothers Company.	236	735	1914	
Court square (city proper).....	(East road) 20 feet north of Williams court to south of Williams court. Acme asphalt. Laid by Warren Brothers Company.	37	118	1913	
Court square (city proper).....	(South road) East road. Court square to West road, Court square. Acme asphalt. Laid by Warren Brothers Company.	74	181	1913	
Court square (city proper).....	(West road) 291 feet south of Court street to 266 feet south of Court street. Acme asphalt. Laid by Warren Brothers Company.	25	65	1913	
Court square (city proper).....	(West road) 266 feet south of Court street to 148 feet south of Court street. Acme asphalt. Laid by Barber Asphalt Paving Company.	118	305	1914	
Court square (city proper).....	(West road) 148 feet south of Court street to 8 feet south of Court street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	140	346	1904	
Creighton street (Roxbury).....	At Centre street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	14	56	1921	Unfinished.
Cumberland street (city proper).....	At Huntington avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	17	1896	
Cummings road (Brighton).....	114 feet west of Corey road to Commonwealth avenue. Mexican asphalt. Laid by Central Construction Company.	903	2,212	1917	Aug. 8, 1922.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Cummington street (Roxbury).....	Boston & Albany Railroad to 21 feet east of Commonwealth avenue. Topeka. Laid by Rowe Contracting Company.	272	1,025	1921	May 6, 1925.
Cummington street (Roxbury).....	21 feet east of Commonwealth avenue to Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	21	71	1917	May 21, 1923.
Cunard street (Roxbury).....	At Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Com- pany.	16	60	1906	
Curtis street (East Boston).....	Each side Saratoga street. Aztec asphalt. Laid by Bernudez Company.	16	71	1919	May 1, 1924.
Curtis street (East Boston).....	Bridge over Boston & Albany Railroad. Trinidad asphalt. Laid by E. R. Taylor Company.	41	139	1906	
Cushing avenue (Dorchester).....	At Columbia road. Topeka (macadam base). Laid by city force.....	7	40	1918	
Cushman road (Brighton).....	Dustin street to Murdock street. Asphalt. Laid by John J. Lane.....	252	728	1921	May 2, 1926.
Cushman road (Brighton).....	Murdock street to Etna street. Asphalt. Laid by John J. Lane.....	334	971	1920	May 2, 1926.
Cushman road (Brighton).....	Etna street to 6 feet east of Glencoe street. Asphalt. Laid by John J. Lane, Central Construction Company.	308	898	1920	May 2, 1926.
Cushman road (Brighton).....	6 feet east of Glencoe street to Glencoe street. Mexican asphalt. Laid by Central Construction Company.	6	15	1917	Aug. 2, 1922.
Custer street (West Roxbury).....	At South street. Bitulithic. Laid by Warren Brothers Company.....	1	3	1913	
Custom House street (city proper).....	At India street. Mexican asphalt. Laid by Central Construction Com- pany.	2	10	1917	†
D street (South Boston).....	8 feet north of West Fifth street to 2 feet north of Gold street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	134	500	1889	
D street (South Boston).....	14 feet southwest of West Broadway to West Broadway. Acme asphalt. Laid by Warren Brothers Company.....	{ 14 }	46	1917	Oct. 18, 1922.
	Bessemer brick block gutters. Laid by Warren Brothers Company.....		8	1917	Oct. 18, 1922.

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List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Dartmouth street (city proper)	15 feet south of Boylston street to Boylston street. Pine wood block. Laid by Coleman Brothers.	15	128	1914	
Dartmouth street (city proper)	Boylston street to 15 feet north of Boylston street. Pine wood block. Laid by Coleman Brothers.	15	117	1914	
Dartmouth street (city proper)	15 feet north of Boylston street to north street line Public Alleys Nos. 349 and 440. Bitulithic. Laid by Coleman Brothers.	129	890	1914	
Dartmouth street (city proper)	North street line Public Alleys Nos. 439 and 440 to 4 feet south of New- bury street. Bitulithic. Laid by Warren Brothers Company.	120	938	1914	
Dartmouth street (city proper)	4 feet south of Newbury street to 9 feet south of south street line of Com- monwealth avenue. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	296	2,228	1903	
Dartmouth street (city proper)	Bitulithic at Newbury street. Laid by Warren Brothers Company. . . . .	.....	75	1919	June 4, 1924.
Dartmouth street (city proper)	9 feet south of south street line of Commonwealth avenue to 10 feet north of north street line of Commonwealth avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	219	1,636	1916	
Dartmouth street (city proper)	10 feet north of north street line of Commonwealth avenue to Beacon street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	554	4,329	1903	
Davenport street (Roxbury)	At Columbus avenue. Bermudez asphalt. Laid by Boston Asphalt Com- pany.	26	66	1906-07	
Davis street (city proper)	11 feet east of Washington street to 26 feet west of Harrison avenue. Trini- dad asphalt. Laid by Barber Asphalt Paving Company.	286	570	1892	
Davis street (city proper)	26 feet west of Harrison avenue to Harrison avenue. Aztec asphalt. Laid by Bermudez Company.	26	54	1918	†
Day street (Roxbury)	At Heath street. Mack brick block. Laid by Field, Barber & Underwood, Inc.	5	36	1910	

		50	179	1921	Unfinished.
Day street (Roxbury)	50 feet north of Centre street to Centre street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	50	179	1921	Unfinished.
Dearborn place (Roxbury)	At Dearborn street. Acme asphalt. Laid by Warren Brothers Company.	5	8	1916	Nov. 20, 1922.
Dearborn street (Roxbury)	Albany street to 56 feet south of Albany street. Mexican asphalt. Laid by Bernudez Company.	56	212	1918	†
Dearborn street (Roxbury)	56 feet south of Albany street to 27 feet north of Dudley street. Acme asphalt. Laid by Warren Brothers Company.	497	1,233, 220	1916-17 1916-17	Nov. 20, 1922. Nov. 20, 1922.
Dearborn street (Roxbury)	Bessemer brick block gutters. Laid by Warren Brothers Company.				
Dearborn street (Roxbury)	27 feet north of Dudley street to Dudley street. Mack brick block. Laid by James Doherty.	27	176	1910	
Decatur street (city proper)	9 feet east of Washington street to 34 feet west of Harrison avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	329	718	1892	
Decatur street (city proper)	34 feet west of Harrison avenue to Harrison avenue. Aztec asphalt. Laid by Bernudez Company.	34	49	1918	†
Deer street (Dorchester)	North street line Melvin side terrace to Roach street. Mexican asphalt. Laid by Central Construction Company.	540	1,203	1919	Aug. 22, 1924.
Deerfield street (Roxbury)	Commonwealth avenue to 18 feet north of Commonwealth avenue. Pine wood block. Laid by Clark & Gore.	18	94	1915	
Dell avenue (Hyde Park)	Hyde Park avenue to 46 feet east of Hyde Park avenue. Topeka. Laid by Martino DeMatteo.	46	229	1921	May 12, 1926.
Dell avenue (Hyde Park)	46 feet east of Hyde Park avenue to 87 feet east of Hyde Park avenue. Topeka (macadam base). Laid by Martino DeMatteo.	41	85	1921	May 12, 1926.
Derne street (city proper)	Temple street to 5 feet east of Hancock street. Mack brick block. Laid by J. E. Burns & Co.	205	610	1909	
Derne street (city proper)	5 feet east of Hancock street to Hancock street. Bitulithic. Laid by Warren Brothers Company.	5	30	1902	
Devonshire street (city proper)	Dock square to 75 feet south of Dock square (west side). Pine wood block. Laid by Bernard E. Grant.	.....	44	1916	
Devonshire street (city proper)	75 feet south of Dock square to State street (each side of tracks). Pine wood block. Laid by Bernard E. Grant.	230	517	1916	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Devonshire street (city proper).....	5 feet north of State street to 6 feet south of Water street. Pine wood block. Laid by Bernard E. Grant.	391	1,278	1916	
Devonshire street (city proper).....	6 feet south of Water street to 1 foot north of Milk street. Pine wood block. Laid by James Doherty.	255	766	1920	June 20, 1925.
Devonshire street (city proper).....	17 feet south of Milk street to north side of Franklin street. Pine wood block. Laid by James Doherty.	418	1,408	1920	June 20, 1925.
Devonshire street (city proper).....	9 feet north of Summer street to Summer street. Pine wood block. Laid by Northern Construction Company.	9	51	1915	
DeWolf street (Dorchester).....	At Hancock street. Bessemer brick block. Laid by Fred S. & A. D. Gore Corporation.	8	24	1911	
Dighton street (Brighton).....	At Washington street. Bitulithie (macadam base). Laid by Warren Brothers Company.	10	27	1920	July 8, 1925.
Dillaway street (city proper).....	Dore street to 2 feet north of Hollis street. Bitulithie. Laid by James Doherty.	259	452	1914	
Dillaway street (city proper).....	2 feet north of Hollis street to Hollis street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	2	4	1891	
Dillon street (city proper).....	Lenox street to Sawyer street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	204	295	1902	
Dimock street (Roxbury).....	13 feet east of Columbus avenue to Columbus avenue. Asphalt concrete (macadam base). Laid by Simpson Brothers Corporation.	13	38	1921	Aug. 9, 1926.
Dimock street (Roxbury).....	Columbus avenue to 16 feet west of Columbus avenue. Asphalt concrete (macadam base). Laid by Simpson Brothers Corporation.	16	46	1921	Aug. 9, 1926.
Dix street (Dorchester).....	At Dorchester avenue. Pine wood block. Laid by Gore, Incorporated.....	10	52	1921	Nov. 16, 1926.
Doane street (city proper).....	8 feet west of Broad street to 297 feet west of Broad street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	289	577	1910	

		13	27	1919	†
Doane street (city proper).....	297 feet west of Broad street to 7 feet east of Kilby street. Laid by James Doherty.				
Doane street (city proper).....	7 feet east of Kilby street to Kilby street. Laid by James Doherty.	7	16	1919	Oct. 10, 1924.
Don street (Dorchester).....	At Callender street. Trinidad asphalt. Laid by D. M. Biggs & Co.	1	3	1915	
Dorchester avenue (South Boston).....	3 feet north of Ralston street to north side of bridge over Old Colony Railroad. Pine wood block. Laid by William J. Barry.	527	1,932	1919	Aug. 21, 1924.
Dorchester avenue (Dorchester).....	67 feet north of Victoria street to 10 feet south of Hallam street. Pine wood block. Laid by William J. Barry.	476	2,128	1919	Aug. 21, 1924.
Dorchester avenue (Dorchester).....	29 feet north of Dix street to north side of Mather street. Pine wood block. Laid by Gore, Incorporated.	201	849	1921	Nov. 16, 1926.
Dorchester avenue (Dorchester).....	49 feet north of King street to 9 feet south of Roseland street. Pine wood block. Laid by Gore, Incorporated.	340	1,490	1921	Nov. 16, 1926.
Dorchester avenue (Dorchester).....	118 feet south of Bellows place to 2 feet north of Richmond street. Pine wood block. Laid by James Doherty.	453	1,177	1917	Nov. 12, 1922.
Dorchester street (South Boston).....	55 feet north of East Broadway to East Broadway. Bitulithic. Laid by Warren Brothers Company.	55	180	1919	June 11, 1924.
Dorchester street (South Boston).....	West Broadway to 5 feet north of West Fourth street. Bitulithic. Laid by Samuel J. Tomasello.	312	1,159	1921	Aug. 31, 1926.
Dorchester street (South Boston).....	10 feet south of West Fourth street to 9 feet south of north side of Old Harbor street. Bitulithic. Laid by Samuel J. Tomasello.	191	745	1921	Aug. 31, 1926.
Dorchester street (South Boston).....	19 feet north of West Fifth street to 106 feet north of West Eighth street. Bitulithic. Laid by Samuel J. Tomasello.	992	4,273	1921	Aug. 31, 1926.
Dorchester street (South Boston).....	West side, 106 feet north of West Eighth street to West Eighth street. Bitulithic. Laid by Samuel J. Tomasello.	.....	239	1921	Aug. 31, 1926.
Dorchester street (South Boston).....	94 feet north of Vinton street to Vinton street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	.....	190	1904	
Dorchester street (South Boston).....	8 feet north of Rogers street to 154 feet north of Dorchester avenue. Bitulithic. Laid by Warren Brothers Company.	152	613	1914	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Dore street (city proper)	9 feet west of Washington street to 8 feet east of Tremont street. Laid by Warren Brothers Company.	437	775	1914	
Dore street (city proper)	3 feet east of Tremont street to Tremont street. Pine wood block. Laid by Bernard B. Grant.	3	6	1917	Nov. 15, 1922.
Doris street (Dorchester)	At Treadway road. Aztec asphalt. Laid by Central Construction Company.	7	21	1916	
Dove street (Roxbury)	At Blue Hill avenue. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	3	9	1917	†
Dove street (Roxbury)	At Dacia street. Bitulithic. Laid by Warren Brothers Company.	1	3	1906	
Dover street (city proper)	At Tremont street. Asphalt. Laid by B. E. Grant Company.	.....	15	1920	Sept. 18, 1925.
Downing street (Roxbury)	Whittier street to Vernon street. Mack brick block. Laid by J. E. Burns & Co.	323	750	1909	
Draper street (Dorchester)	At Bowdoin street. Aztec asphalt (macadam base). Laid by Bernudez Company.	11	32	1919	May 9, 1924.
Dudley street (Roxbury)	74 feet west of Guild row to 24 feet east of Harrison avenue. Pine wood block. Laid by James Doherty.	841	4,134	1912	
Dudley street (Roxbury)	24 feet east of Harrison avenue to 4 feet east of Magazine street. Mack brick block. Laid by James Doherty.	2,666	10,755	1910	
Dudley street (Roxbury)	Dunmore street to Magazine street (east side). Sicilian rock asphalt. Laid by Boston Asphalt Company.	.....	350	1902	
Dunbar avenue (Dorchester)	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	9	33	1918	Sept. 25, 1923.
Dunbar avenue (Dorchester)	9 feet west of Washington street to 491 feet west of Washington street. Mexican asphalt (macadam base). Laid by Martino DeMatteo.	482	1,768	1919	June 3, 1924.

Dundee street (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	13	1901
Dunlap street (Dorchester).....	Washington street to 11 feet west of Washington street. Pine wood block. Laid by William J. Barry.	11	25	1913
Dunlap street (Dorchester).....	11 feet west of Washington street to 6 feet east of Whitfield street. Trinidad asphalt. Laid by William J. Rafferty & Co.	787	1,759	1915
Dunmore street (Roxbury).....	Dudley street to 57 feet east of Dudley street. Mack brick block. Laid by James Doherty.	57	135	1910
Dunster road (West Roxbury).....	Centre street to 2 feet north of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	2	7	1919
Dunster road (West Roxbury).....	2 feet north of Centre street to 7 feet south of Dane street. Mexican asphalt. Laid by Central Construction Company.	854	2,468	1917
Dunster road (West Roxbury).....	7 feet south of Dane street to Dane street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	7	23	1915
Dunster road (West Roxbury).....	Dane street to 7 feet north of Dane street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	7	26	1915
Dunster road (West Roxbury).....	7 feet north of Dane street to Pond street. Mexican asphalt. Laid by Central Construction Company.	900	2,606	1917
Dustin street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company.	10	31	1918
Dustin street (Brighton).....	At Cushman road. Asphalt concrete (macadam base). Laid by John J. Lane.	.....	32	1921
Dustin street (Brighton).....	At Cambridge street. Bitulithic. Laid by Warren Brothers Company.	12	37	1919
Dwight street (city proper).....	6 feet west of Shawmut avenue to 11 feet east of Tremont street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	696	2,017	1893
Dwight street (city proper).....	11 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	11	33	1920
E street (South Boston).....	5 feet south of Bolton street to West Third street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	106	392	1892

Aug. 12, 1924.

June 12, 1922.

June 12, 1922.

Dec. 24, 1923.

May 2, 1926.

Sept. 4, 1924.

Sept. 18, 1925.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
E street (South Boston)	15 feet northeast of West Broadway to West Broadway. Acme asphalt. Laid by Warren Brothers Company.	15	58	1917	Oct. 18, 1922.
E street (South Boston)	West Broadway to 24 feet southwest of West Broadway. Acme asphalt. Laid by Warren Brothers Company;.....	24 {	83	1917 }	Oct. 18, 1922.
E street (South Boston)	Bessemer brick block gutters. Laid by Warren Brothers Company;.....	311	1,137	1903	
E street (South Boston)	24 feet southwest of West Broadway, across West Fourth street. Bitu- lithic. Laid by Warren Brothers Company.				
E street (South Boston)	West Seventh street to West Eighth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	311	500	1904	
East Broadway (South Boston)	West side Dorchester street to west side L street. Bitulithic. Laid by Warren Brothers Company	2,731	10,248	1919	June 11, 1924.
Eastburn street (Brighton)	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	23	1920	July 8, 1925.
Eastman street (Dorchester)	At Elder street. Topeka. Laid by Central Construction Company;.....	7	21	1920	Oct. 14, 1925.
East Concord street (city proper)	At Albany street. Pine wood block. Laid by Bernard E. Grant;.....	12	45	1917	Jan. 19, 1923.
East Cottage street (Dorchester)	At Pleasant street. Topeka (macadam base). Laid by Central Construc- tion Company.	.....	104	1920	Sept. 22, 1925.
East Fourth street (South Boston)	8 feet west of K street, across P street. Pine wood block. Laid by John E. Quinn.	2,655	8,681	1919	May 24, 1925.
East Fourth street (South Boston)	P street to 96 feet west of Farragut road. Pine wood block. Laid by James Doherty.	426	1,450	1911	
East Fourth street (South Boston)	96 feet west of Farragut road to Farragut road. Mack brick block. Laid by James Doherty.	96	329	1911	
East Newton street (city proper)	Washington street to Harrison avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	604	2,205	1919	April 23, 1924.

East Newton street (city proper).....	Harrison avenue to 13 feet west of Albany street. Aztec asphalt (macadam base). Laid by Bernudez Company.	701	2,634	1919	May 14, 1924.
Easton street (Brighton).....	North Harvard street to Myrick street. Asphalt. Laid by John J. Lane....	660	1,911	1920	Nov. 20, 1925.
East Sixth street (South Boston).....	At G street. Bitulithic. Laid by Warren Brothers Company.....	3	12	1905	
Easton street (Brighton).....	Myrick street to 7 feet west of Mansfield street. Asphalt. Laid by John J. Lane.	218	634	1920	Nov. 20, 1925.
Easton street (Brighton).....	7 feet west of Mansfield street to 64 feet west of Mansfield street. Asphalt (macadam base). Laid by John J. Lane.	57	131	1920	Nov. 20, 1925.
Eaton street (city proper).....	At North Russell street. Aztec asphalt. Laid by Bernudez Company. ...	3	6	1917	Nov. 3, 1922.
Echo street (Roxbury).....	Columbus avenue to 20 feet west of Columbus avenue. Asphalt concrete (macadam base). Laid by Simpson Brothers Corporation.	20	39	1921	Aug. 9, 1926.
Edinboro' street (city proper).....	Essex street to Beach street. Acme asphalt. Laid by Warren Brothers Company.	464	916	1912	
Edson street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	9	43	1914	
Elder street (Dorchester).....	Columbia road to Humphreys street. Topeka. Laid by Central Construction Company.	846	2,512	1920	Oct. 14, 1925.
Eleanor street (Brighton).....	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	37	1919	Sept. 4, 1924.
Elko street (Brighton).....	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	29	1919	Sept. 4, 1924.
Elgin street (West Roxbury).....	Centre street to 3 feet west of Centre street. Topeka. Rowe Contracting Company.	3	11	1921	Aug. 26, 1926.
Elgin street (West Roxbury).....	3 feet west of Centre street to West Roxbury Branch, Boston & Providence Division, New York, New Haven & Hartford Railroad. Trinidad asphalt. Laid by Charles J. Jacobs Company.	592	1,687	1915	
Elhot street (city proper).....	On south side at Broadway. Pine wood block. Laid by Coleman Brothers,		99	1914	
Elhot street (city proper).....	East side of Broadway to Columbus avenue. Pine wood block. Laid by United States Wood Preserving Company.	164	723	1907	
Elhot street (West Roxbury).....	At Centre street. Bitulithic. Laid by Warren Brothers Company.....	2	7	1913	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Elizabeth street (Dorchester).....	At Norfolk street. Bitulithie. Laid by Warren Brothers Company.....	8	25	1918	Nov. 4, 1923.
Elm street (West Roxbury).....	Green street to 41 feet south of Green street. Topeka (macadam base). Laid by Central Construction Company.	41	183	1921	June 3, 1926.
Elmira street (Brighton).....	At Market street. Simasco. Laid by Simpson Brothers Corporation.....	35	103	1921	June 20, 1926.
Elm Hill avenue (Roxbury).....	At Seaver street. Aeme asphalt (macadam base) Laid by Warren Brothers Company.	19	83	1917	Sept. 17, 1922.
Elmhurst street (Dorchester).....	At Norfolk street. Bitulithie. Laid by James Doherty.....	2	7	1914	
Emerald street (city proper).....	7 feet south of Castle street to 7 feet north of Dover street. Bitulithie (crushed stone base). Laid by Warren Brothers Company.	898	2,599	1904	
Emerson street (South Boston).....	125 feet west of East Broadway to East Broadway. Bitulithie. Laid by Warren Brothers Company.	125	524	1919	June 11, 1924.
Emerson street (South Boston).....	East Broadway to 34 feet east of East Broadway. Bitulithie. Laid by Warren Brothers Company.	34	139	1919	June 11, 1924.
Emerson street (South Boston).....	7 feet west of K street to K street. Pine wood block. Laid by John E. Quinn.	7	21	1920	May 24, 1925.
Emerson street (South Boston).....	22 feet west of East Fourth street to East Fourth street. Pine wood block. Laid by John E. Quinn.	22	88	1920	May 24, 1925.
Emerson street (South Boston).....	8 feet west of M street to M street. Pine wood block. Laid by John E. Quinn.	8	20	1920	May 24, 1925.
Emmons street (East Boston).....	At Chelsea street. Asphalt concrete. Laid by Coleman Brothers, Inc.....	11	33	1921	July 19, 1926.
Endicott street (city proper).....	Cooper street, across Thacher street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	320	1,082	1899	
Englewood avenue (Brighton).....	At Chestnut Hill avenue. Asphalt concrete (macadam base). Laid by John J. Lane.	13	58	1921	Oct. 14, 1926.

Epping street (Dorchester)	Washington street to 1 foot east of Norfolk street. Laid by Central Construction Company.	240	557	1917	May 25, 1922.
Epping street (Dorchester)	1 foot east of Norfolk street to Norfolk street. Bitulithic. Laid by James Doherty.	1	6	1913	
Essex place (city proper)	Tufts street to 7 feet south of Essex street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	195	336	1901	
Essex street (Brighton)	Commonwealth avenue to 22 feet north of Commonwealth avenue. Pine wood block. Laid by Clark & Gore.	22	161	1915	
Essex street (Brighton)	From 22 feet north of Commonwealth avenue to bridge abutment. Aztec asphalt. Laid by Bermudez Company.	240	679	1918	†
Essex street (Brighton)	Bridge abutment to Cambridge line. Pine wood block. Laid by James Doherty.	520	1,445	1913	
Etna street (Brighton)	At North Beacon street. Bitulithic. Laid by Warren Brothers Company.	10	35	1918	Dec. 24, 1923.
Etna street (Brighton)	At Cushman road. Asphalt. Laid by John J. Lane.	32	110	1920	May 2, 1926.
Euclid street (Dorchester)	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	10	33	1918	Sept. 25, 1923.
Eustis street (Roxbury)	138 feet east of Winslow street to 163 feet west of Albany street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	130	241	1906	
Eustis street (Roxbury)	12 feet west of Dearborn street to Dearborn street. Acme asphalt. Laid by Warren Brothers Company.	12 {	29	1916	Nov. 20, 1922.
Eustis street (Roxbury)	Bessemer brick block gutters. Laid by Warren Brothers Company.	}	7	1916	Nov. 20, 1922.
Eustis street (Roxbury)	Dearborn street to 6 feet east of Dearborn street. Acme asphalt. Laid by Warren Brothers Company.	6 {	16	1916	Nov. 20, 1922.
Eustis street (Roxbury)	Bessemer brick block gutters. Laid by Warren Brothers Company.	}	4	1916	
Eustis street (Roxbury)	6 feet east of Dearborn street to 9 feet west of Hampden street. Bitulithic. Laid by John F. Beatty.	1,270	3,689	1914	
Eustis street (Roxbury)	Hampden street to Magazine street. Bitulithic. Laid by John F. Beatty.	686	1,990	1914	
Evelyn street (Dorchester)	At Norfolk street. Bitulithic. Laid by Warren Brothers Company.	8	25	1918	Nov. 4 1923.
Everett avenue (Dorchester)	At Stoughton street. Topeka (macadam base). Laid by department forces.	4	21	1920	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Everett street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company..	10	31	1918	Dec. 24, 1923.
Everett street (Hyde Park).....	At Hyde Park avenue. Topeka. Laid by Martino DeMatteo.....	9	30	1921	May 12, 1926.
Everson street (Dorchester).....	Olney street to Geneva avenue. Topeka. Laid by Central Construction Company.	677	2,026	1916	June 26, 1922.
Exchange place (city proper).....	Congress street to 7 feet east of Congress street. Pine wood block. Laid by Coleman Brothers, Inc.	7	22	1921	Nov. 19, 1926.
Exchange place (city proper).....	7 feet east of Congress street to 59 feet east of Congress street. Asphalt. Laid by Rowe Contracting Company.	52	152	1921	†
Exchange place (city proper).....	59 feet east of Congress street to 30 feet west of Kilby street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	156	451	1903	
Exchange place (city proper).....	30 feet west of Kilby street to 9 feet west of Kilby street. Aztec asphalt. Laid by James Doherty.	21	61	1919	†
Exchange place (city proper).....	9 feet west of Kilby street to Kilby street. Pine wood block. Laid by James Doherty.	9	27	1919	Oct. 10, 1924
Exchange street (city proper).....	173 feet north of State street to 25 feet south of Dock square. Pine wood block. Laid by Central Construction Company.	139	242	1913	
Exeter place (city proper).....	8 feet west of Chauncy street to 7 feet east of Harrison avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	155	353	1897	
Exeter street (city proper).....	At Huntington avenue. Bitulithic. Laid by Fred S. & A. D. Gore Corporation.....	.....	14	1912	
	Bitulithic. Laid by Warren Brothers Company.....	.....	5	1909	
Exeter street (city proper).....	Huntington avenue to 16 feet south of Boylston street. Bitulithic. Laid by Boston Elevated Railway Company.	541	2,126	1914	
Exeter street (city proper).....	16 feet south of Boylston street to Boylston street. Bitulithic. Laid by Coleman Brothers.	16	85	1914	

Exeter street (city proper).....	Boylston street to 15 feet north of Boylston street. Bitulithic. Laid by Warren Brothers Company.	15	62	1919	June 24, 1924.
Exeter street (city proper).....	15 feet north of Boylston street to south street line Commonwealth avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	552	2,208	1919	June 24, 1924.
Exeter street (city proper).....	South street line of Commonwealth avenue to north street line of Commonwealth avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	200	730	1916	
Exeter street (city proper).....	South side of Marlborough street. Bitulithic. Laid by James Doherty.....	3	13	1914	
Exeter street (city proper).....	North side of Marlborough street. Bitulithic. Laid by James Doherty.....	2	9	1914	
Exeter street (city proper).....	At Beacon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	2	9	1909	
Fabin street (city proper).....	Newland street to Ivanhoe street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	415	606	1895	
Fabyan street (Dorchester).....	15 feet east of Blue Hill avenue to 4 feet east of Harvard street. Trinidad asphalt. Laid by Martino DeMatteo.	687	1,981	1915	
Fabyan street (Dorchester).....	4 feet east of Harvard street to Harvard street. Topeka. Laid by Rowe Contracting Company.	4	15	1920	June 1, 1925.
Fairbanks street (Brighton).....	Washington street to 10 feet north of Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	31	1920	July 8, 1925.
Fairbanks street (Brighton).....	10 feet north of Washington street to Faneuil street. Asphalt. Laid by city forces.	1,170	3,381	1921	
Fairfield street (city proper).....	Boylston street to 5 feet north of Boylston street. Bitulithic. Laid by Warren Brothers Company.	5	23	1913	
Fairfield street (city proper).....	13 feet south of Newbury street. Bitulithic (macadam base). Laid by Warren Brothers Company.	60	267	1919	June 4, 1924.
Fairfield street (city proper).....	Each side of Marlborough street. Bitulithic. Laid by James Doherty....	6	26	1914	
Fairfield street (city proper).....	At Beacon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	3	12	1909	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Fairmont avenue (Hyde Park).....	River street to 45 feet east of River street. Topeka (macadam base). Laid by Central Construction Company.	45	226	1921	Sept. 9, 1926.
Falkland terrace (Brighton).....	Hobart street to Brookdale road. Topeka. Laid by John J. Lane.....	661	1,949	1920	Sept. 25, 1925.
Falmouth street (Roxbury).....	30 feet north of Norway street to 6 feet north of Massachusetts avenue. Pine wood block. Laid by James Doherty.	634	2,433	1909	
Falmouth street (Roxbury).....	6 feet north of Massachusetts avenue to Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	6	25	1901	
Faneuil street (Brighton).....	At Market street. Simasco. Laid by Simpson Brothers Corporation.....	10	80	1921	June 20, 1926.
Farquhar street (West Roxbury).....	Intersection of Selwyn street. Topeka (macadam base). Laid by Martino DeMatteo.	33	85	1920	Nov. 11, 1925.
Farquhar street (West Roxbury).....	Selwyn street to Centre street. Topeka. Laid by Martino DeMatteo.....	905	2,620	1920	Nov. 11, 1925.
Farrington avenue (Brighton).....	At Harvard avenue. Bitulithic. Laid by Coleman Brothers.....	2	6	1914	
Faxon street (Roxbury).....	At Smith street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7	16	1919	Nov. 8, 1924.
Fay street (city proper).....	5 feet west of Harrison avenue to 8 feet south of Dover street. Sicilian rock asphalt (cobble base). Laid by Boston Asphalt Company.	305	532	1894	
Fayette street (city proper).....	Broadway to 7 feet west of Broadway. Pine wood block. Laid by Coleman Brothers.	7	16	1913	
Fayette street (city proper).....	7 feet west of Broadway to Arlington street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	839	1,914	1911	
Federal street (city proper).....	Milk street to 5 feet south of Franklin street. Pine wood block. Laid by James Doherty.	474	1,670	1919	April 20, 1924.
Fendon street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	30	1912	

Ferdinand street (city proper)	See Arlington square.				
Fernboro street (Dorchester)	Lawrence avenue to Intervale street. Trinidad asphalt. Laid by James Doherty.	487	1,412	1916	
Fletcher street (West Roxbury)	Each side of Centre street. Asphalt (macadam base). Laid by the Bernudez Company.	18	58	1920	May 5, 1926.
Flint street (Dorchester)	At Norfolk street. Bitulithic. Laid by Warren Brothers Company.	8	25	1918	Nov. 4, 1923.
Florence street (city proper)	10 feet east of Washington street to 8 feet west of Harrison avenue. Mexican asphalt. Laid by Central Construction Company.	341	694	1917	†
Florida street (Dorchester)	King street to Lonsdale street. Topeka (macadam base). Laid by city force.	569	1,326	1919	
Florida street (Dorchester)	Lonsdale street to Templeton street. Topeka (macadam base). Laid by city force.	573	1,407	1919	
Florida street (Dorchester)	Templeton street to Ashmont street. Topeka (macadam base). Laid by city force.	694	1,592	1919	
Forbes street (Roxbury)	At Centre street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	12	50	1921	Unfinished.
Ford street (East Boston)	Saratoga street to 62 feet north of Saratoga street. Standard asphalt. Laid by Bernudez Company.	62	271	1918	May 1, 1924.
Fordham road (Brighton)	Brighton avenue to Commonwealth avenue. Mexican asphalt. Laid by Central Construction Company.	624	1,481	1917	July 2, 1922.
Forsyth street (Roxbury)	At Huntington avenue. Asphalt concrete (macadam base). Laid by Andrews Construction Company.	13	82	1921	July 8, 1926.
Foster street (Brighton)	Each side of Washington street. Bitulithic. Laid by Warren Brothers Company.	22	151	1920	July 8, 1925.
Foster street (Brighton)	At Commonwealth avenue. Mexican asphalt (Telford macadam base). Laid by Central Construction Company.	3	10	1918	May 21, 1923.
Fottler road (Dorchester)	Each side of Walk Hill street. Mexican asphalt (macadam base). Laid by Martino DeMatteo.	24	94	1919	June 18, 1924.

List of Streets Having a Smooth Pavement.-- Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Frankfort street (East Boston).....	At Neptune road. Mexican asphalt. Laid by the Central Construction Company.	20	67	1916-17	Aug. 2, 1923.
Franklin street (city proper).....	At Federal street. Pine wood block. Laid by James Doherty.....	10	40	1919	April 20, 1924.
Franklin street (city proper).....	At India street. Mexican asphalt. Laid by Central Construction Company,	1	4	1901	
Fruit street (city proper).....	Blossom street to 2 feet north of Charles street. Acme asphalt. Laid by Warren Brothers Company.....	947 {	1,425 {	1917 {	Nov. 15, 1922 {
Fruit street (city proper).....	Bessemer brick block gutters. Laid by Warren Brothers Company.	503 }		1917 }	Nov. 15, 1922. }
Fruit street (city proper).....	2 feet north of Charles street to Charles street. Pine wood block. Laid by John McCourt Company.	2	10	1920	Aug. 20, 1925.
Fuller street (Brighton).....	At Commonwealth avenue. Asphalt (macadam base). Laid by the Bermudez Company.	20	79	1920	†
G street (South Boston).....	Each side of East Broadway. Bitulithic. Laid by Warren Brothers Company.	58	193	1919	June 11, 1924.
G street (South Boston).....	110 feet north of East Sixth street to 180 feet north of East Seventh street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	228	821	1905	
Gaffney street (Brighton).....	Commonwealth avenue to Boston & Albany Railroad. Mexican asphalt. Laid by Central Construction Company.	779 {	3,914 {	1917 {	June 28, 1922. {
Gainsborough street (city proper).....	Pine wood block (brows to street car rails). Laid by Central Construction Company.	28		1917	June 28, 1922.
Gainsborough street (city proper).....	Huntington avenue to 13 feet west of Huntington avenue. Asphalt concrete (macadam base). Laid by Andrews Construction Company.	13	49	1921	July 8, 1925.
Gainsborough street (Roxbury).....	Providence Division of New York, New Haven & Hartford Railroad to 10 feet east of Huntington avenue. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	539	2,037	1903	
Garden Court street (city proper).....	North square to 7 feet south of Fleet street. Asphalt (bitulithic base). Laid by Rowe Contracting Company.	226	365	1921	†

Gardner street (Brighton).....	At Harvard avenue. Bitulithic. Laid by Coleman Brothers.....	2	6	1914
Garrison street (city proper).....	At Huntington avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	16	1896
Gates street (South Boston).....	At Dorchester street. Bitulithic. Laid by Samuel J. Tomascello.....	5	16	1921
Gay street (Roxbury).....	At Linden Park street. Mack brick block. Laid by J. E. Burns & Co.....	8	19	1909
Gay Head street (Roxbury).....	At Centre street. Asphalt concrete (macadam base). Laid by B. E. Grant.	15	40	1921
Gaylord street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	3	9	1913
Genesee street (city proper).....	Harrison avenue to 15 feet east of Harrison avenue. Aztec asphalt. Laid by Bermudez Company.	15	34	1918
Genesee street (city proper).....	15 feet east of Harrison avenue to 66 feet west of Albany street. Seyssel rock asphalt. Laid by Jones & Meehan.	431	956	1899
Genesee street (city proper).....	66 feet west of Albany street to 15 feet west of Albany street. Asphalt. Laid by the Bermudez Company.	51	114	1920
Geneva avenue (Dorchester).....	185 feet west of Beechwood street to 9 feet east of Bowdoin street. Mack brick block. Laid by Central Construction Company.	1,329	5,123	1911
Geneva avenue (Dorchester).....	9 feet east of Bowdoin street to Bowdoin street. Topeka. Laid by city force.	9	20	1919
Geneva avenue (Dorchester).....	Bowdoin street to 222 feet south of Charles street. Topeka (macadam base). Laid by department forces.	2,384	4,208	1920
Geneva avenue (Dorchester).....	112 feet north of Vinson street to 9 feet south of Vinson street. Topeka (macadam base). Laid by department forces.	151	222	1920
Geneva avenue (Dorchester).....	Park street to 10 feet north of Dorchester avenue. Topeka (macadam base). Laid by department forces.	465	1,797	1920
Geneva avenue (Dorchester).....	At Levant street. Aztec asphalt (macadam base). Laid by McGuire & McGoury.	.....	54	1919
Glenn street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	23	1912
Glencoe street (Brighton).....	North Beacon street to 1 foot south of North Beacon street. Bitulithic. Laid by Warren Brothers Company.	1	3	1918

Aug. 31, 1926.

Unfinished.

Nov. 24, 1924.

Dec. 24, 1923.

†

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Glencoe street (Brighton).....	1 foot south of North Beacon street to Saybrook street. Mexican asphalt. Laid by Central Construction Company.	415	972	1917	Aug. 2, 1922.
Glencoe street (Brighton).....	Saybrook street to 7 feet south of Garden street. Mexican asphalt. Laid by Central Construction Company.	346	820	1917	Aug. 2, 1922.
Glendale street (Dorchester).....	At Columbia road. Bitulithic. Laid by Warren Brothers Company.....	5	28	1915	
Glendale street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	23	1910-11	
Glendower road (West Roxbury).....	Kittredge street to Poplar street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	1,926	5,578	1915-16	
Glenville avenue.....	At Harvard avenue. Bitulithic. Laid by Coleman Brothers.....	2	6	1914	
Glenville avenue (Brighton).....	58 feet west of Spofford road to 44 feet west of Greylock road. Asphalt (macadam base). Laid by John J. Lane.	74	275	1920	Nov. 5, 1925.
Glenville avenue (Brighton).....	44 feet west of Greylock road to 21 feet east of Long avenue. Asphalt. Laid by John J. Lane.	557	1,723	1920	Nov. 5, 1925.
Glenville avenue (Brighton).....	21 feet east of Long avenue to Long avenue. Trinidad asphalt. Laid by Central Construction Company.	21	80	1914	
Glenville avenue (Brighton).....	Long avenue to 24 feet west of Long avenue. Trinidad asphalt. Laid by Central Construction Company.	24	93	1914	
Glenville avenue (Brighton).....	24 feet west of Long avenue to Allston street. Asphalt. Laid by John J. Lane.	379	1,097	1920	Nov. 5, 1925.
Glenway street (Dorchester).....	At York street. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	17	1919	Dec. 10, 1924.
Glenway street (Dorchester).....	At Brenton street. Bitulithic (macadam base). Laid by Warren Brothers Company.	.....	31	1921	July 13, 1926.

		68	186	1921	‡
Glenwood avenue (Hyde Park).....	Bridge over Mother brook. Pine wood block. Laid by John McCourt Company.				
Gloucester street (city proper)	At Boylston street. Bitulithic. Laid by Warren Brothers Company	5	23	1913	
Gloucester street (city proper)	Each side of Newbury street. Pine wood block. Laid by United States Wood Preserving Company.	7	31	1901	
Gloucester street (city proper)	East side of Marlborough street. Bitulithic. Laid by James Doherty.....	6	26	1914	
Gloucester street (city proper).....	At Beacon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	3	13	1909	
Gold street (South Boston).....	Bridge over New York, New Haven & Hartford Railroad. Pine wood block. Laid by Central Construction Company.	82	118	1918	‡
Gold street (South Boston).....	B street to C street. Sicilian rock asphalt. Laid by Jones & Meehan.....	512	730	1901	
Gold street (South Boston).....	C street to D street. Sicilian rock asphalt. Laid by Jones & Meehan.....	513	741	1901	
Gold street (South Boston).....	At Dorchester street. Bitulithic. Laid by Warren Brothers Company	4	6	1905	
Goldsmith street (West Roxbury).....	At Centre street. Topcka (macadam base). Laid by Rowe Contracting Company.	12	27	1919	Aug. 12, 1924
Gordon street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company..	10	31	1918	Dec. 24, 1923.
Gordon street (Brighton).....	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	37	1919	Sept. 4, 1924.
Gove street (East Boston).....	8 feet east of Venice street to Cottage street. Topeka. Laid by Warren Brothers Company.	424	1,430	1917-18	April 26, 1923.
Gove street (East Boston).....	Each side of Chelsea street. Asphalt concrete. Laid by Coleman Brothers, Inc.	23	82	1921	July 19, 1926.
Grace street (Dorchester).....	Walton street to Roshin street. Bitulithic. Laid by D. M. Biggs & Co....	303	873	1915	
Granby street (Roxbury).....	At Commonwealth avenue. Pine wood block. Laid by Clark & Gore.....	19	88	1915	
Gray street (city proper).....	At Clarendon street. Bitulithic. Laid by Warren Brothers Company.....	3	7	1904	
Green street (West Roxbury).....	10 feet east of Washington street to 7 feet west of Call street. Topeka. Laid by Central Construction Company.	878	2,751	1919	Dec. 6, 1924.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet	Area, Square Yards.	Year Laid.	Guaranty Expires.
Green street (West Roxbury).....	7 feet west of Call street to Centre street. Topeka (macadam base). Laid by Central Construction Company.	1,997	5,932	1921	June 3, 1926.
Greenough avenue (West Roxbury)....	At Centre street. Bitulithic. Laid by Warren Brothers Company.....	2	18	1913	
Greenview avenue (West Roxbury)....	Centre street to 413 feet east of Centre street. Topeka. Laid by John Kelly Company.	413	686	1919	Oct. 30, 1924.
Greenville street (Roxbury).....	At Dudley street. Mack brick block. Laid by James Doherty.....	8	20	1910	
Greenwich park (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906	
Greenwich street (Roxbury).....	Westminster street to Warwick street. Topeka. Laid by Central Construction Company.	365	1,383	1919	July 1, 1924.
Greenwood avenue (Hyde Park).....	Hyde Park avenue to 98 feet east of Hyde Park avenue. Topeka. Laid by Martino DeMatteo.	98	508	1921	May 12, 1926.
Greenwood avenue (Hyde Park).....	98 feet east of Hyde Park avenue to 129 feet east of Hyde Park avenue. Topeka (macadam base). Laid by Martino DeMatteo.	31	97	1921	May 12, 1926.
Greenwood street (Dorchester).....	At York street. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	35	1919	Dec. 10, 1924.
Greenwood street (Dorchester).....	At Brenton street. Bitulithic. Laid by Warren Brothers Company.....	.....	14	1921	July 13, 1926.
Groton street (city proper).....	Washington street to Shawmut avenue (block base). Trinidad asphalt. Laid by Barber Asphalt Paving Company.	316	528	1892	
Guild row (Roxbury).....	42 feet north of Dudey street to Dudley street. Pine wood block. Laid by James Doherty.	42	285	1912	
Gurney street (Roxbury).....	At Parker street. Aztec asphalt (macadam base). Laid by Bermudez Company.	8	26	1919	Oct. 25, 1924.

		53	184	1919	June 11, 1924.
H street (South Boston).....	Each side of East Broadway. Bitulithic. Laid by Warren Brothers Com- pany.				
Half Moon street (Dorchester).....	At Lingard street. Bitulithic. Laid by James Doherty	1	8	1915	
Halifax street (Roxbury).....	South Huntington avenue to Pond View street. Asphalt concrete. Laid by Martino DeMatteo.	971	2,880	1921	July 6, 1926.
Hall street (West Roxbury).....	At South street. Aztec asphalt (macadam base). Laid by Bermudez Company.	2	6	1918	Sept. 28, 1923.
Hallam street (Dorchester).....	Dorchester avenue to 10 feet east of Dorchester avenue. Fine wood block. Laid by William J. Barry.	10	31	1919	Aug. 21, 1924.
Hallam street (Dorchester).....	10 feet east of Dorchester avenue to Auckland street. Mexican asphalt. Laid by Martino DeMatteo.	311	897	1919	June 30, 1924.
Halleek street (Roxbury).....	At Station street. Bitulithic. Laid by John F. Beatty.....	1	3	1914	
Hamilton street (Dorchester).....	Each side of Bowdoin street. Aztec asphalt. Laid by Bermudez Company,	39	132	1919	May 9, 1924.
Hamlet street (Dorchester).....	Belden street to Columbia road. Trinidad asphalt. Laid by Central Construction Company.	409	909	1915	
Hamlin street (South Boston).....	East Eighth street to Columbia road. Topeka. Laid by John T. Shea, Jr.,	266	772	1920	Sept. 28, 1925.
Hammond street (city proper).....	Shawmut avenue to Tremont street. Fine wood block. Laid by Fred S. & A. D. Gore Corporation.	1,115	4,214	1912	
Hampshire street (Roxbury).....	Ruggles street to Whittier street. Mack brick block. Laid by J. E. Burns & Co.	362	1,050	1909	
Hampshire street (Roxbury).....	Whittier street to Vernon street. Mack brick block. Laid by J. E. Burns & Co.	364	1,055	1909	
Hampshire street (Roxbury).....	Vernon street to Linden Park street. Mack brick block. Laid by J. E. Burns & Co.	645	1,864	1909	
Hampstead road (West Roxbury).....	Arborway to 1,000 feet northwest of Arborway. Topeka. Laid by John Kelly Company.	1,000	3,250	1919	Oct. 29, 1924.
Hancock street (city proper).....	Mt. Vernon street to 4 feet north of Mt. Vernon street. Mack brick block.	4	14	1901	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Warranty Expires.
Hancock street (city proper).....	4 feet north of Mt. Vernon street to 7 feet south of Cambridge street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	928	2,383	1902	
Hancock street (Dorchester).....	At Columbia road (west road). Bitulithic (macadam base). Laid by Warren Brothers Company.	.....	281	1915	
Hancock street (Dorchester).....	Columbia road to 345 feet northwest of DeWolf street (not including next item). Mack brick block. Laid by Central Construction Company.	2,199	9,189	1910-11	
Hancock street (Dorchester).....	(East side) 73 feet north of Howe street to 88 feet north of Cameron street, Concrete road. Laid by city force.	.....	408	1918	
Hancock street (Dorchester).....	At Bowdoin street. Mack brick block. Laid by Central Construction Company.	.....	205	1913	
Hancock street (Dorchester).....	345 feet northwest of DeWolf street to 19 feet west of Dorchester avenue. Bessemer brick block. Laid by Fred S. & A. D. Gore Corporation.	1,416	5,684	1911	
Hanover avenue (city proper).....	Hanover street to North street. Aztec asphalt. Laid by Bermudez Company.	300	306	1919	
Hanover street (city proper).....	(West side) Tileston street, across Charter street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	315	425	1907	
Hanover street (city proper).....	(East side) Tileston street, across Charter street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	.....	323	1896	
Hanson street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	16	60	1920	Sept. 18, 1925.
Harold street (Roxbury).....	At Seaver street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	20	93	1917	Sept. 17, 1922.
Harris avenue (West Roxbury).....	At Centre street. Bitulithic. Laid by Warren Brothers Company.....	2	5	1913	
Harris street (city proper).....	Hanover street to 10 feet east of Hanover street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	10	11	1896	

Harris street (city proper).....	10 feet east of Hanover street to 9 feet west of North street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	281	352	1904
Harrison avenue (city proper).....	22 feet south of Kneeland street to 22 feet north of Harvard street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	249	885	1899
Harrison avenue (city proper).....	Bridge over Boston & Albany Railroad. Pine wood block. Laid by Central Construction Company. Maintained by railroad company.	53	177	1915
Harrison avenue (city proper).....	Asylum street, across Davis street. Aztec asphalt. Laid by Bernudez Company.	160	302	1918 ‡
Harrison avenue (city proper).....	Northerly side of Decatur street, across Gloucester place. Aztec asphalt. Laid by Bernudez Company.	144	269	1918 ‡
Harrison avenue (city proper).....	Brow to track at Union Park street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	.....	12	1913
Harrison avenue (city proper).....	At Union Park street. Acme asphalt. Laid by Fred S. & A. D. Gore Corporation.	.....	140	1913
Harrison avenue (city proper).....	North side of Union Park street, across Malden street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	248	433	1902-03
Harrison avenue (city proper).....	Malden street to East Dedham street. Acme asphalt. Laid by Warren Brothers Company.	382	918	1909
Harrison avenue (city proper).....	East Newton street to 6 feet north of East Springfield street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	922 {	825 1,716	1888 1895
Harrison avenue (city proper).....	At Worcester street. Mexican asphalt. Laid by Central Construction Company.	.....	123	1919 Nov. 11, 1924.
Harrison avenue (city proper).....	7 feet south of East Springfield street to 104 feet south of East Springfield street (east side). Trinidad asphalt. Laid by Barber Asphalt Paving Company.	.....	140	1888
Harrison avenue (city proper).....	6 feet north of East Springfield street to Northampton street, not including 7 feet south of East Springfield street to 104 feet south of East Springfield street (east side). Bitulithic (crushed stone base). Laid by Warren Brothers Company.	508	1,174	1905
Harrison avenue (city proper).....	Northampton street to East Lenox street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	427	1,090	1903

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Harrison avenue (Roxbury).....	At Dudley street. Pine wood block. Laid by James Doherty.....	16	72	1912	
Harvard avenue (Brighton).....	19 feet south of Cambridge street to Brighton avenue. Bituthic. Laid by Coleman Brothers.....	843 {	2,594	1914	
	Pine wood block (between tracks and brows to tracks). Laid by Coleman Brothers.		587	1914	
Harvard avenue (Brighton).....	Brighton avenue to north street line of Commonwealth avenue. Bituthic. Laid by Coleman Brothers.....	884 {	3,211	1914	
	Pine wood block (between tracks and brows to tracks). Laid by Coleman Brothers.		600	1914	
Harvard avenue (Brighton).....	North side of Commonwealth avenue to south side of Commonwealth avenue. Mexican asphalt (Telford macadam base). Laid by Central Construction Company.	180	635	1917-18	May 21, 1923.
Harvard avenue (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	16	90	1912	
Harvard avenue (Hyde Park).....	Hyde Park avenue to 92 feet south of Hyde Park avenue. Laid by Martino DeMatteo.	92	566	1921	May 12, 1926.
Harvard avenue (Hyde Park).....	92 feet south of Hyde Park avenue to 128 feet south of Hyde Park avenue. Topeka (macadam base). Laid by Martino DeMatteo.	36	123	1921	May 12, 1926.
Harvard avenue (Hyde Park).....	83 feet north of River street to River street. Topeka (macadam base). Laid by Central Construction Company.	83	305	1921	Sept. 9, 1926.
Harvard Bridge (city proper).....	Boston side of draw to 270 feet west of southerly abutment. Jennison Wright slab paving. Laid by Rowe Contracting Company.	708	4,001	1919	†
Harvard Bridge (city proper).....	270 feet west of southerly abutment to southerly abutment. Jennison Wright slab paving. Laid by Rowe Contracting Company.	270	1,540	1919	†
Harvard square (Charlestown).....	At Harvard street. Aztec asphalt (macadam base). Laid by Bermudez Company.	15	46	1918	June 8, 1923.

		1,270	1918	June 8, 1923.
Harvard street (Charlestown).....	4 feet south of Harvard square to 17 feet south of Devens street. Aztec asphalt (macadam base). Laid by Bernudez Company.	443	1918	
Harvard street (city proper).....	Washington street 9 feet west of Harrison avenue. Pine wood block. Laid by J. H. McCarthy.	401	1910	
Harvard street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	1912	
Harvard street (Dorchester).....	41 feet north of Fabryan street to 54 feet south of Brookview street. Topeka. Laid by Rowe Contracting Company.	652	1920	June 1, 1925.
Harwood street (Dorchester).....	Willowwood street to Lucerne street. Trinidad asphalt. Laid by James Doherty.	723	1916	
Haskins street (Roxbury).....	Ruggles street to 6 feet south of Ruggles street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	6	1907	
Haskins street (Roxbury).....	6 feet north of Vernon street to Vernon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	6	1907	
Hastings street (West Roxbury).....	Centre street to 10 feet north of Centre street. Topeka. Laid by Rowe Contracting Company.	10	1921	Aug. 26, 1926.
Hastings street (West Roxbury).....	10 feet north of Centre street to 56 feet north of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	46	1921	Aug. 26, 1926.
Hastings street (West Roxbury).....	10 feet south of Centre street to Centre street. Topeka. Laid by Rowe Contracting Company.	10	1921	Aug. 26, 1926.
Havelock street (Dorchester).....	Blue Hill avenue to Morton street. Topeka. Laid by Rowe Contracting Company.	661	1920	July 28, 1925.
Haviland street (Roxbury).....	At Massachusetts avenue Sicilian rock asphalt. Laid by Boston Asphalt Company.	5	1901	
Hawes street (city proper).....	Congress street to 8 feet east of Congress street. Pine wood block. Laid by Coleman Brothers Inc.	8	1921	Nov. 19, 1926.
Hawes street (city proper).....	8 feet east of Congress street to 8 feet west of Kilby street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	242	1904	
Hawes street (city proper).....	8 feet west of Kilby street to Kilby street. Aztec asphalt. Laid by James Doherty.	8	1919	†

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Hayley street (city proper).....	At Summer street. Pine wood block. Laid by Northern Construction Company.	8	25	1915	
Hayward place (city proper).....	Washington street to 9 feet east of Washington street. Pine wood block. Laid by Bernard E. Grant.	9	20	1917	Nov. 4, 1922.
Hayward place (city proper).....	9 feet east of Washington street to Harrison avenue. Acme asphalt. Laid by Boston Paving Company.	251	87	1913	
Heath street (Roxbury).....	Asphalt. Laid by the Bermudez Company.....	.....	477	1920	†
	16 feet north of Bromley street to Parker street. Soilamies concrete. Laid by city forces.	220	836	1921	
Heath street (Roxbury).....	Parker street to 7 feet north of Lawn street and from 72 feet north of Lawn street to 86 feet south of South Huntington avenue. Mack brick block. Laid by Field, Barker & Underwood, Inc.	3,045	12,627	1910	
Helen street (Dorchester).....	7 feet west of Bernard street to 17 feet east of Talbot avenue. Trinidad asphalt. Laid by James Doherty.	331	1,003	1915	
Helen street (Dorchester).....	15 feet east of Talbot avenue to Talbot avenue. Mack brick block. Laid by James Doherty.	15	93	1911	
Hemenway street (Roxbury).....	At Boylston street. Bitulithic. Laid by Warren Brothers Company.....	5	25	1905	
Hemenway street (Roxbury).....	At Huntington avenue. Asphalt concrete (macadam base). Laid by Andrews Construction Company.	42	390	1921	July 8, 1926.
Hendry street (Dorchester).....	At Bowdoin street. Topeka (macadam base). Laid by city force.....	20	104	1918	
Henry street (East Boston).....	At Maverick square. Aztec asphalt. Laid by Bermudez Company.....	10	34	1917	Dec. 15, 1922.
Henshaw street (Brighton).....	At Cambridge street. Bitulithic. Laid by Warren Brothers Company.....	25 {	274	1913	Sept. 4, 1924.
	Bitulithic (macadam base). Laid by Warren Brothers Company.....		220	1919	
Henshaw street (Brighton).....	46 feet east of Market street to Market street. Simasco. Laid by Simpson Brothers Corporation.	46	111	1921	June 20, 1926.

Hereford street (city proper)	Each side of Newbury street. Pine wood block. Laid by Patrick McGovern,	7	31	1903
Hereford street (city proper)	Each side of Marlborough street. Bitulithic. Laid by James Doherty. . . .	6	28	1914
Hereford street (city proper)	At Beacon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	3	12	1907
Herrick street (Brighton)	At North Beacon street. Bitulithic. Laid by Warren Brothers Company. .	10	28	1918
Hewlett street (West Roxbury)	At Centre street. Asphalt (macadam base). Laid by the Bermudez Com- pany.	8	26	1920
Highborn street (Brighton)	At North Beacon street. Bitulithic. Laid by Warren Brothers Company. .	10	28	Dec. 24, 1923.
High street (Dorchester)	At Hancock street. Bessemer brick block. Laid by Fred S. & A. D. Gore Corporation.	8	29	May 5, 1926.
Hillcrest street (West Roxbury)	Elgin street to 7 feet south of Elgin street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	7	23	1915
Hillcrest street (West Roxbury)	7 feet south of Elgin street to Temple street. Mexican asphalt. Laid by Central Construction Company.	518	1,507	1917
Hillside street (Roxbury)	At Pontiac street. Asphalt concrete. Laid by John McCourt Company. . . . .	.....	18	1921
Hinckley street (Dorchester)	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	44	112	1920
Hinsdale street (Roxbury)	Commonwealth avenue to 8 feet south of Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	8	28	June 28, 1926.
Hinsdale street (Roxbury)	8 feet south of Commonwealth avenue to Cunningham street. Mack brick block. Laid by Fred S. & A. D. Gore Corporation.	226	856	Sept. 22, 1925.
Hobart street (Brighton)	At Brooks street. Asphalt (macadam base). Laid by city forces.	3	6	May 21, 1923.
Holbrook street (West Roxbury)	At Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	9	27	1919
Hollis street (city proper)	Tremont street to 1 foot east of Tremont street. Pine wood block. Laid by Bernard E. Grant.	1	3	Aug. 12, 1924.
Hollis street (city proper)	7 feet east of Tremont street toward Washington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	254	478	Nov. 15, 1922.
				1891

List of Streets Having a Smooth Pavement.— Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Holden street (Dorchester).....	8 feet west of Columbia road to 416 feet west of Columbia road. Mexican asphalt. Laid by Martino DeMatteo.	408	1,089	1919	July 11, 1924.
Holiday street (Dorchester).....	Each side of Geneva avenue. Topeka (macadam base). Laid by department forces.	1	7	1920	
Holton street (Brighton).....	Everett street to Antwerp street. Acme asphalt. Laid by John F. Lynch.	694	2,007	1919	July 31, 1924.
Holyoke street (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906-07	
Homes avenue (Dorchester).....	Each side of Geneva avenue. Topeka (macadam base). Laid by department forces.	2	9	1920	
Homestead street (Roxbury).....	Elm Hill avenue to Humboldt avenue. Mexican asphalt. Laid by Central Construction Company.	1,123	3,253	1917	July 18, 1922.
Hopstill street (Dorchester).....	3 feet south of Aspinwall road to 8 feet south of Aspinwall road. Barrington brick block. Laid by Charles J. Jacobs Company.	5	14	1907	
Hopstill street (Dorchester).....	10 feet south of Aspinwall road to 6 feet north of Southern avenue. Trinidad asphalt. Laid by Charles J. Jacobs Company.	302	872	1915	
Howe street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	29	1910	
Howes street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	38	89	1920	Sept. 22, 1925.
Howland street (Roxbury).....	231 feet west of Humboldt avenue to 6 feet east of Harold street. Bitulithic. Laid by John F. Beatty.	422	1,219	1915	
Hubert street (Roxbury).....	8 feet west of Shawmut avenue to 3 feet east of Westminster street. Aztec asphalt. Laid by Central Construction Company.	444	1,282	1916	
Hubert street (Roxbury).....	3 feet east of Westminster street to Westminster street. Topeka. Central Construction Company.	3	10	1919	June 24, 1924.

Hudson street (city proper).....	7 feet south of Beach street to 7 feet north of Kneeland street. Mexican asphalt. Laid by Central Construction Company.	306	816	1917	‡
Hudson street (city proper).....	7 feet south of Kneeland street to 6 feet north of Harvard street. Mexican asphalt. Laid by Central Construction Company.	358	955	1917	‡
Hudson street (city proper).....	6 feet south of Harvard street to 82 feet north of Curve street. Mexican asphalt. Laid by Central Construction Company.	822	2,192	1917	‡
Humboldt avenue (Roxbury).....	At Seaver street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	21	90	1917	Sept. 17, 1922.
Hunnewell avenue (Brighton).....	At Atkins street. Mexican asphalt. Laid by Central Construction Company.	7	18	1917	July 18, 1922.
Huntington avenue (city proper).....	At Boylston street (east side). Bitulithic. Laid by Coleman Brothers. ....	.....	444	1914	
	Trinidad asphalt. Laid by Barber Asphalt Paving Company. ....	.....	302	1901	
Huntington avenue (city proper).....	Boylston street to 159 feet south of Boylston street (west side). Pine wood block. Laid by Coleman Brothers.	159	786	1914	
Huntington avenue (city proper).....	At St. James avenue. Bitulithic. Laid by James Doherty.....	100	578	1912	
Huntington avenue (city proper).....	At St. James avenue and Dartmouth street. Bitulithic. Laid by Boston Elevated Railway Company.	40	328	1914	
Huntington avenue (city proper).....	At Dartmouth street. Acme asphalt. Laid by Warren Brothers Company, ....	.....	180	1912	
Huntington avenue (city proper).....	159 feet south of Boylston street to 9 feet south of Dartmouth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.....	325 {	2,570	1901	
	Bitulithic. Laid by Boston Elevated Railway Company.	}	177	1914	
Huntington avenue (city proper).....	9 feet south of Dartmouth street to 84 feet north of bridge over Boston & Albany Railroad. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	600	3,350	1906	
Huntington avenue (city proper).....	84 feet north of bridge over Boston & Albany Railroad to bridge over Boston & Albany Railroad. Bitulithic. Laid by Warren Brothers Company.	84	490	1909	
Huntington avenue (city proper).....	At Exeter street. Bitulithic. Laid by Boston Elevated Railway Company, ....	.....	101	1914	
Huntington avenue (city proper).....	Bridge over Boston & Albany Railroad. Pine wood block. Laid by Central Construction Company.	92	633	1916	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Huntington avenue (city proper)	Bridge over Boston & Albany Railroad to 70 feet south of bridge over Boston & Albany Railroad. Trinidad asphalt. Laid by Simpson Brothers Corporation.	70	434	1909	
Huntington avenue (city proper)	70 feet south of bridge over Boston & Albany Railroad to north side of Cumberland street, minus 685 feet north of West Newton street to 38 feet north of West Newton street (west roadway). Sicilian rock asphalt. Laid by Boston Asphalt Company.	1,520	6,635	1896	
Huntington avenue (city proper)	685 feet north of West Newton street to 38 feet north of West Newton street (west roadway). Trinidad asphalt. Laid by Barber Asphalt Paving Company.	.....	1,831	1907	
Huntington avenue (Roxbury)	North side of Cumberland street to 10 feet north of Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	737	4,083	1896	
Huntington avenue (Roxbury)	9 feet south of Massachusetts avenue to 8 feet north of Gainsborough street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	573	3,055	1896	
Huntington avenue (Roxbury)	8 feet north of Gainsborough street to tangent of curb west side Huntington Entrance. Asphalt concrete (Telford macadam base). Laid by Andrews Construction Company.	1,855	5,543	1921	July 8, 1926.
Huntington avenue (Roxbury, south side)	At Jamaicaaway. Bitulithic (Telford macadam base). Laid by Warren Brothers Company.	.....	450	1920	Aug. 21, 1925.
Hyde Park avenue (Hyde Park)	40 feet north of tangent (north side) Metropolitan avenue (west) to tangent (north side) Metropolitan avenue (west). Topeka. Laid by Martino DeMatteo.	.....	21	1921	May 12, 1926.
Hyde Park avenue (Hyde Park)	Topeka (macadam base). Laid by Martino DeMatteo	40	95	1921	May 12, 1926.
Hyde Park avenue (Hyde Park)	Tangent (north side) Metropolitan avenue (west) to 9 feet north of River street. Topeka. Laid by Martino DeMatteo.	5,445	23,329	1921	May 12, 1926.
Hyde Park avenue (Hyde Park)	9 feet north of River street to 13 feet south of River street. Topeka (macadam base). Laid by Central Construction Company.	59	244	1921	Sept. 9, 1926.

Hyde Park avenue (West Roxbury) . . .	In easterly car track, Walk Hill street to Patten street. Grouted concrete. Laid by Boston Elevated Railway Company.	693	1921	
I street (South Boston)	23 feet north of Emerson street to Emerson street. Bitulithic. Laid by Warren Brothers Company.	23	1919	June 11, 1924
I street (South Boston)	East Broadway to 23 feet south of East Broadway. Bitulithic. Laid by Warren Brothers Company.	23	1919	June 11, 1924.
I street (South Boston)	23 feet south of East Broadway to 8 feet north of East Fourth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	242	1910	
Idlewild street (Brighton)	Commonwealth avenue to 17 feet south of Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	17	1917	May 21, 1923.
Idlewild street (Brighton)	17 feet south of Commonwealth avenue to 7 feet north of Brainerd road. Bitulithic. Laid by Charles J. Jacobs Company.	362	1915	
Imrie street (Brighton)	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	1919	Sept. 4, 1924.
Imrie road (Brighton)	Cambridge street to Allston street playground. Asphalt concrete. Laid by Charles M. Callahan.	620	1921	Aug. 2, 1926.
India street (city proper)	9 feet east of Milk street to angle near Export street. Mexican asphalt. Laid by Central Construction Company.	553	1917	+
Intervale street (Dorchester)	Each side of Normandy street. Aztec asphalt. Laid by Central Construction Company.	2	1916	
Ipswich street (Roxbury)	Bridge over waterway. Sicilian rock asphalt. Laid by Boston Asphalt Company.	61	1898	
Irma street (Dorchester)	Callender street to 7 feet south of Callender street. Trinidad asphalt.	7	1915	
Irma street (Dorchester)	7 feet south of Callender street to Woodrow avenue. Bitulithic. Laid by Warren Brothers Company.	591	1919	May 26, 1924.
Irvington street (city proper)	At Huntington avenue. Trinidad asphalt. Laid by Simpson Brothers Corporation.	5	1909	
Isabella street (city proper)	At Arlington street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	8	1911	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Islington street (Brighton)	At Brighton avenue. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	22	1919	Sept. 4, 1924.
James street (city proper)	Each side of East Newton street. Aztec asphalt (macadam base). Laid by Bernudez Company.	17	64	1919	April 23, 1924.
Jerome street (Dorchester)	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	42	1911	
Joiner street (Charlestown)	Park street to Chelsea street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	161	413	1906	
Jones avenue (Dorchester)	Mascot street to Ballou avenue. Trinidad asphalt. Laid by James Doherty.	984	2,834	1916	
Jones avenue (Dorchester)	At Wollaston terrace. Topeka. Laid by Rowe Contracting Company. ....	.....	21	1920	July 29, 1925.
Josephine street (Dorchester)	At Geneva avenue. Topeka (macadam base). Laid by department forces.	1	6	1920	
Joy street (city proper)	Beacon street to 12 feet north of Beacon street. Topeka (macadam base). Laid by Bernard E. Grant.	12	28	1917	Nov. 15, 1922.
Justin road (Brighton)	Bigelow street to 7 feet east of Atkins street. Mexican asphalt. Laid by Central Construction Company.	466	1,369	1919	April 29, 1924.
Justin road (Brighton)	7 feet east of Atkins street to Atkins street. Mexican asphalt. Laid by Central Construction Company.	7	18	1917	July 18, 1922.
K street (South Boston)	Each side of East Broadway. Bitulithic. Laid by Warren Brothers Company.	30	106	1919	June 11, 1924.
K street (South Boston)	Each side of East Fourth street. Pine wood block. Laid by John E. Quinn.	32	127	1920	May 24, 1925.
K street (South Boston)	East Fourth street to East Sixth street. American rock asphalt. Laid by Jones & Niehan.	593	2,088	1906	
K street (South Boston)	East Sixth street to East Eighth street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	566	1,083	1896	

Kemp street (South Boston).....	At Dorchester avenue. Pine wood block. Laid by William J. Barry.....	10	30	1919	Aug. 21, 1924.
Kennard avenue (city proper).....	At Poplar street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1	3	1887	
Kennard avenue (city proper).....	At Allen street. Mexican asphalt. Laid by Central Construction Company.	2	4	1917	†
Kenneth street (West Roxbury).....	At Beech street. Topeka. Laid by Rowe Contracting Company.....	10	31	1920	May 4, 1926.
Kenney street (Roxbury).....	Day street to 503 feet west of Day street. Trinidad asphalt. Laid by James Doherty.	503	1,113	1915	
Kent street (Roxbury).....	Roxbury street to Vernon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	440	933	1911	
Kenton road (West Roxbury).....	Washington street to 839 feet east of Washington street. Topeka. Laid by Rowe Contracting Company.	839	1,900	1919	Dec. 6, 1924.
Kenwood street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	30	1913	
Kerwin street (Dorchester).....	At Talbot avenue (crosswalk). Barrington brick block. Laid by James Doherty.....	9	51	1907	
	Mack brick block. Laid by James Doherty.....	5	37	1911	
Kilby street (city proper).....	Milk street to 7 feet north of Milk street. Pine wood block. Laid by James Doherty.	7	83	1910	
Kilby street (city proper).....	7 feet north of Milk street to 9 feet south of State street. Pine wood block. Laid by James Doherty.	624	3,273	1919	Oct. 10, 1924.
King street (Dorchester).....	At Florida street. Topeka (macadam base). Laid by city force.....		7	1919	
King street (Dorchester).....	At Dorchester avenue. Pine wood block. Laid by Gore, Inc.....	11	54	1921	Nov. 16, 1926.
Kingston street (city proper).....	Summer street to 6 feet south of Summer street. Pine wood block. Laid by Northern Construction Company.	6	18	1915	
Kingston street (city proper).....	6 feet south of Essex street to 7 feet north of Beach street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	479	1,828	1910	
Kirkland street (city proper).....	10 feet south of Broadway toward Corning street. Acme asphalt. Laid by Warren Brothers Company.	361	519	1909	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Kittredge street (West Roxbury).....	Cornell street to Beech street. Bitulithic. Laid by Charles J. Jacobs Company.	547	1,588	1916	
L street (South Boston).....	Each side of East Fourth street. Pine wood block. Laid by John E. Quinn.	17	58	1920	May 24, 1925.
Laconia street (city proper).....	Washington street to Harrison avenue. Mexican asphalt. Laid by Central Construction Company.	314	687	1917	†
La Grange street (city proper).....	Tremont street to 10 feet east of Tremont street. Pine wood block. Laid by Bernard E. Grant.	10	20	1917	Nov. 15, 1922.
La Grange street (city proper).....	10 feet east of Tremont street to 303 feet west of Washington street. Asphalt. Laid by Rowe Contracting Company.	171	341	1921	†
La Grange street (West Roxbury).....	88 feet east of Centre street to 11 feet east of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	77	327	1921	Aug. 26, 1926.
La Grange street (West Roxbury).....	11 feet east of Centre street to Centre street. Topeka. Laid by Rowe Contracting Company.	11	77	1921	Aug. 26, 1926.
La Grange street (West Roxbury).....	Centre street to 36 feet west of Centre street. Topeka. Laid by Rowe Contracting Company.	36	178	1921	Aug. 26, 1926.
La Grange street (West Roxbury).....	36 feet west of Centre street to 115 feet west of Centre street.....	79	293	1921	Aug. 26, 1926.
Lake street (Brighton).....	At Commonwealth avenue. Mexican asphalt. Telford (macadam base). Laid by Central Construction Company.	16	81	1918	May 21, 1923.
Lamartine street (West Roxbury).....	At Green street. Topeka (macadam base). Laid by Central Construction Company.	6	23	1921	June 3, 1926.
Lamont street (Roxbury).....	At Linden Park and Vernon streets. Mack brick block. Laid by J. E. Burns & Co.	14	25	1909	
Lawn street (Roxbury).....	At Heath street. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	32	1910	

Lawrence street (city proper).....	At Berkeley street. Bitulithic. Laid by Warren Brothers Company.	4	9	1906
Lawrence street (city proper).....	Each side of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	5	14	1914
Lawrence street (Charlestown).....	East side of Lawrence avenue, across Miller street. Sicilian rock asphalt. Laid by Jones & Meehan.	385	1,014	1901
Leicester street (Brighton).....	At Arlington street. Simasco. Laid by Simpson Brothers Corporation.	8	24	1921
Leicester street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	31	1919
Leroy street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces. .	1	7	1920
Leslie street (Dorchester).....	Dix street to Centre street. Trinidad asphalt. Laid by D. M. Biggs & Co.,	374	1,090	1915
Levant street (Dorchester).....	Geneva avenue to Topliff street. Aztec asphalt. Laid by McGuire & McGourty.	689	2,019	1919
Lewis street (city proper).....	At Moon street. Bitulithic. Laid by Warren Brothers Company.	1	2	1906
Lincoln place (city proper).....	Worcester street to 8 feet south of Worcester street. Mexican asphalt. Laid by Central Construction Company.	8	12	1919
Lincoln place (city proper).....	8 feet south of Worcester street to West Springfield street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	202	292	1897
Lincoln street (Brighton).....	Market street to 46 feet east of Market street. Simasco. Laid by Simpson Brothers Corporation.	45	151	1921
Linden street (South Boston).....	At Thomas park. Bitulithic. Laid by Warren Brothers Company.	1	4	1905
Linden street (Brighton).....	10 feet north of Brighton avenue to Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	10	22	1917
Linden street (Brighton).....	Brighton avenue to 10 feet south of Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	10	22	1917

June 8, 1926.

July 8, 1925.

Nov. 24, 1924.

Nov. 11, 1924.

June 20, 1926.

Dec. 7, 1922.

Dec. 7, 1922.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Linden street (Brighton)	22 feet north of Commonwealth avenue to Commonwealth avenue, Mexican asphalt (macadam base). Laid by Central Construction Company.	22	125	1917	May 21, 1923.
Linden Park street (Roxbury)	12 feet east of Cabot street to 4 feet east of Elmwood street. Mack brick block. Laid by J. E. Burns & Co.	1,015	3,242	1909	
Lingard street (Dorchester)	Magnolia street to Hartford street. Bitulithic. Laid by James Doherty,...	594	1,791	1915	
Lithgow street (Dorchester)	Wainwright street to Talbot avenue, Mexican asphalt. Laid by Central Construction Company.....	683	2,042	1917	May 30, 1922.
Lithgow street (Dorchester)	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	10	34	1918	Sept. 25, 1923.
Lochstead avenue (West Roxbury)	At Centre street. Asphalt concrete. Laid by B. E. Grant Company.	8	26	1921	Unfinished.
Long avenue (Brighton)	6 feet north of Commonwealth avenue to 17 feet north of Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	11	31	1918	May 21, 1923.
Long avenue (Brighton)	16 feet north of Commonwealth avenue to Allston street. Trinidad asphalt. Laid by Central Construction Company.	760	2,578	1914	
Longwood avenue (Roxbury)	51 feet north of Huntington avenue to 9 feet south of Brookline avenue. Mack brick block. Laid by Field, Barker & Underwood, Inc.	2,078	7,850	1910	
Lonsdale street (Dorchester)	At Florida street. Topeka (macadam base). Laid by city forces.....	42	121	1919	
Lorette street (West Roxbury)	Centre street to 5 feet north of Centre street. Topeka. Laid by Rowe Contracting Company.	5	17	1921	Aug. 26, 1926.
Lorette street (West Roxbury)	5 feet north of Centre street to 18 feet south of Hillcrest street. Aztec asphalt. Laid by Central Construction Company.	484	1,393	1917	July 10, 1922.
Lorette street (West Roxbury)	18 feet south of Hillcrest street to Hillcrest street. Mexican asphalt. Laid by Central Construction Company.	18	52	1917	June 25, 1922.

		646	1,880	1917	Oct. 15, 1922.
Lorne street (West Roxbury)	Harvard street to 646 feet northwest of Harvard street. Mexican asphalt. Laid by Central Construction Company.				
Lothrop street (Brighton)	At Market street. Sinasco. Laid by Simpson Brothers Corporation.....	11	23	1921	June 20, 1926.
Lovell street (East Boston)	At Neptune road. Mexican asphalt. Laid by Central Construction Company.	20	67	1917-18	Aug. 2, 1923.
Loving street (city proper)	8 feet east of Washington street to 8 feet west of Harrison avenue. Acme asphalt. Laid by James Doherty.	306	525	1913	
Lucas street (city proper)	Middlesex street to 2 feet north of Shawmut avenue. Asphalt blocks.....	98	81	1902	
Lucas street (city proper)	2 feet north of Shawmut avenue to Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	2	2	1898	
Lucas street (city proper)	Shawmut avenue to 2 feet south of Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	2	2	1898	
Lucas street (city proper)	10 feet south of Shawmut avenue to 9 feet north of Washington street. Scoria block. Laid by Paving Service.	322	254	1915	
Lucerne street (Dorchester)	Callender street to 7 feet south of Callender street. Trinidad asphalt. Laid by D. M. Biggs & Co.	7	38	1915	
Lucerne street (Dorchester)	7 feet south of Callender street to Woodrow avenue. Aztec asphalt. Laid by Bernudez Company.	805	2,357	1919	Oct. 20, 1924.
Lyndehurst street (Dorchester)	At Washington street. Pine wood block. Laid by William J. Barry.....	10	30	1913	
Lynn street (city proper)	Cooper street to Thacher street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	294	457	1906	
M street (South Boston)	At Emerson street. Pine wood block. Laid by John E. Quinn.....	7	30	1920	May 24, 1925.
Mackin street (Brighton)	Western avenue to Waverly street. Bitulithic. Laid by A. H. Archer.....	292	656	1915	
Magazine street (Roxbury)	At Dudley street. Mack brick block. Laid by James Doherty.....	10	30	1910	
Main street (Charlestown)	Boston & Maine Railroad to Somerville line. Concrete road Laid by city force.	139	672	1919	
Maitland street (Roxbury)	Beacon street to Boston & Albany Railroad. Mack brick block. Laid by Fred S. & A. D. Gore Corporation.	186	537	1912	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Malcolm street (city proper).....	Pinekey street to Mt. Vernon street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	312	244	1912	
Malcolm street (city proper).....	54 feet south of Mt. Vernon street to 8 feet north of Chestnut street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	200	150	1892	
Malden street (city proper).....	12 feet east of Washington street to Harrison avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	519	1,501	1902	
Mall street (Roxbury).....	At Dearborn street. Acme asphalt. Laid by Warren Brothers Company..... Bessener brick block gutters. Laid by Warren Brothers Company.....	10 {	34 5	1916 1916	Nov. 20, 1922. Nov. 20, 1922.
Mallet street (Dorchester).....	At Florida street. Topeka (macadam base). Laid by city force.....	8	50	1919	
Malvern street (Brighton).....	At Brighton avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	10	22	1917	Dec. 7, 1922.
Mansfield street (Brighton).....	Easton street to 7 feet south of Easton street. Asphalt. Laid by John J. Lane.	7	22	1920	Nov. 20, 1925.
Mansfield street (Brighton).....	7 feet south of Easton street to 34 feet south of Easton street. Asphalt (macadam base). Laid by John J. Lane.	27	51	1920	Nov. 20, 1925.
Manthorne road (West Roxbury).....	Centre street to 53 feet north of Centre street. Topeka. Laid by Rowe Contracting Company.	53	155	1921	July 26, 1926.
Maple street (Roxbury).....	At Seaver street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	20	48	1917	Sept. 17, 1922.
Maple street (West Roxbury).....	Centre street to 11 feet north of Centre street. Topeka. Laid by Rowe Contracting Company.	11	35	1921	Aug. 26, 1926.
Maple street (West Roxbury).....	11 feet north of Centre street to 46 feet north of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	35	100	1921	Aug. 26, 1926.

Maple street (Hyde Park).....	River street to 18 feet south of River street. Laid by Central Construction Company.	18	78	1921	Sept. 9, 1926.
Mapleton street (Brighton).....	36 feet east of Market street to Market street. Laid by Simpson Brothers Corporation.	36	88	1921	June 20, 1926.
Marble street (Roxbury).....	Mack brick block gutters. Laid by Coyle & Clark.	.....	17	1907-8	
	Westminster street to Warwick street. Laid by Central Construction Company.	375	1,084	1919	May 27, 1924.
Marbury terrace (Roxbury).....	At Amory street. Mexican asphalt (macadam base). Laid by Central Construction Company.	7	23	1919	Dec. 6, 1924.
Marion street (East Boston).....	Each side of Chelsea street. Asphalt concrete (macadam base). Laid by Coleman Brothers, Inc.	21	82	1921	July 19, 1926.
Market street (Brighton).....	Western avenue to bridge over Boston & Albany Railroad. Laid by Simpson Brothers Corporation.	1,287	4,424	1921	June 20, 1926.
Market street (Brighton).....	Bridge over Boston & Albany Railroad to 2 feet north of Washington street. Laid by Simpson Brothers Corporation.	3,593	12,046	1921	June 20, 1926.
Market street (Brighton).....	2 feet north of Washington street to Washington street. Bitulithic. Laid by Warren Brothers Company.	{ 2 {	21	1913	
	Pine wood block (brows to street car rails). Laid by Warren Brothers Company.		1	1913	
Marlborough street (city proper).....	Arlington street to 15 feet west of Arlington street. Laid by Barber Asphalt Paving Company.	15	60	1901	
Marlborough street (city proper).....	15 feet west of Arlington street to 10 feet east of Clarendon street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	1,226	4,904	1901	
Marlborough street (city proper).....	10 feet east of Clarendon street to Clarendon street. Bitulithic. Laid by Warren Brothers Company.	10	40	1905	
Marlborough street (city proper).....	Clarendon street to Dartmouth street. Bitulithic (macadam base). Laid by James Doherty.	575	2,300	1914	
Marlborough street (city proper).....	Dartmouth street, across Exeter street. Bitulithic (macadam base). Laid by James Doherty.	591	2,359	1914	
Marlborough street (city proper).....	Exeter street, across Fairfield street. Bitulithic (macadam base). Laid by James Doherty.	660	2,616	1914	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Marlborough street (city proper).....	Fairfield street, across Gloucester street. Bitulithic (macadam base). Laid by James Doherty.	562	2,248	1914	
Marlborough street (city proper).....	Gloucester street, across Hereford street. Bitulithic (macadam base). Laid by James Doherty.	435	1,740	1914	
Marlborough street (city proper).....	Hereford street to Massachusetts avenue. Bitulithic (macadam base). Laid by James Doherty.	665	2,660	1914	
Marlborough street (Roxbury).....	Massachusetts avenue to 3 feet west. Sicilian rock asphalt. Laid by Boston Asphalt Company.	3	16	1901	
Marlborough street (Roxbury).....	11 feet west of Massachusetts avenue to Charlesgate East. Bitulithic (macadam base). Laid by James Doherty.	640	2,418	1914	
Marvin street (Roxbury).....	Shawmut avenue to Washington street. Pine wood block Laid by Boston Paving Company.	256	573	1913	
Mason street (city proper).....	West street to 6 feet south of West street. Black gum wood block. Laid by United States Wood Preserving Company.	6	14	1908	
Mason street (city proper).....	6 feet south of West street to 213 feet south of West street. Asphalt. Laid by the Bermudez Company.	209	469	1920	†
Mason street (city proper).....	213 feet south of West street to 256 feet south of West street. Asphalt (granite block base). Laid by the Bermudez Company.	43	91	1920	†
Mason street (city proper).....	256 feet south of West street to 449 feet south of West street. Bitulithic (granite block base). Laid by Warren Brothers Company.	193	390	1907	
Mason street (city proper).....	449 feet south of West street to 73 feet north of Avery street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	96	200	1909	
Mason street (city proper).....	73 feet north of Avery street to 63 feet north of Avery street. Seyssal rock asphalt. Laid by Jones & Meehan.	10	23	1899	

Mason street (city proper).....	63 feet north of Avery street to Avery street. Bitulithic. Laid by Coleman Brothers.	63	169	1914
Mason street (city proper).....	Angle 53 feet north of Avery street to 12 feet east of Tremont street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	73	175	1900
Mason street (city proper).....	12 feet east of Tremont street to Tremont street. Pine wood block. Laid by Coleman Brothers.	12	31	1915
Massachusetts avenue (city proper)....	Albany street to 2 feet east of Harrison avenue. (North roadway.) Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	622	1,899	1912
Massachusetts avenue (city proper)....	(South roadway.) Sicilian rock asphalt. Laid by Boston Asphalt Company.		1,866	1894
Massachusetts avenue (city proper)....	2 feet east of Harrison avenue to Harrison avenue. Bitulithic. Laid by Warren Brothers Company.	2	16	1905
Massachusetts avenue (city proper)....	Harrison avenue to 3 feet west of Harrison avenue. Bitulithic. Laid by Warren Brothers Company.	3	25	1905
Massachusetts avenue (city proper)....	3 feet west of Harrison avenue to Washington street. (North roadway.) Pine wood block. Laid by Fred S. & A. D. Gore Corporation. Pine wood block. Laid by department forces.	670	782 1,227 1,974	1912 1920 1894
Massachusetts avenue (city proper)....	(South roadway.) Sicilian rock asphalt. Laid by Boston Asphalt Company.			
Massachusetts avenue (city proper)....	Washington street to Shawmut avenue. (North roadway.) Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	341	1,003	1912
Massachusetts avenue (city proper)....	(South roadway.) Acme asphalt. Laid by Warren Brothers Company....		1,008	1910
Massachusetts avenue (city proper)....	Shawmut avenue to 13 feet east of Tremont street. (North roadway.) Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	921	2,889	1912
Massachusetts avenue (city proper)....	(South roadway.) Acme asphalt. Laid by Warren Brothers Company....		2,946	1910
Massachusetts avenue (city proper)....	13 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	13	107	1920 Sept. 18, 1925.
Massachusetts avenue (city proper)....	Tremont street to 16 feet west of Tremont street. Asphalt. Laid by B. E. Grant Company.	16	135	1920 Sept. 18, 1925.
Massachusetts avenue (city proper)....	16 feet west of Tremont street to 13 feet east of Columbus avenue. (North roadway.) Bitulithic. Laid by Warren Brothers Company.....	516	1,597 1,568	1907 1910
Massachusetts avenue (city proper)....	(South roadway.) Acme asphalt. Laid by Warren Brothers Company.....			

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Massachusetts avenue (city proper).....	13 feet east of Columbus avenue to Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	13	106	1906-07	
Massachusetts avenue (city proper).....	Columbus avenue to Providence Division, New York, New Haven & Hartford Railroad. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	469	2,248	1903-06	
Massachusetts avenue (Roxbury).....	Providence Division, New York, New Haven & Hartford Railroad to Hunt- ington avenue. Bitulithic (crushed stone base.) Laid by Warren Brothers Company.	551	2,100	1903-06	
Massachusetts avenue (Roxbury).....	Huntington avenue, across Boylston street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	1,778	8,506	1901	
Massachusetts avenue (Roxbury).....	Boylston street to bridge over Boston & Albany Railroad. Acme asphalt. Laid by Warren Brothers Company.....	99 {	440	1909	
Massachusetts avenue (Roxbury).....	Sicilian rock asphalt. Laid by Boston Asphalt Company.....		12	1901	
Massachusetts avenue (Roxbury).....	Bridge over Boston & Albany Railroad. Pine wood block. Laid by Cole- man Brothers.	75	500	1908	
Massachusetts avenue (Roxbury).....	Bridge over Boston & Albany Railroad to 47 feet north of Newbury street. Trinidad asphalt. Laid by James Doherty.	175	586	1914	
Massachusetts avenue (Roxbury).....	47 feet north of Newbury street to 27 feet south of Marlborough street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	656	3,301	1901	
Massachusetts avenue (city proper)....	27 feet south of Marlborough street to south side of Beacon street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	326	1,557	1901	
Massachusetts avenue (city proper)....	Each side of Beacon street. Pine wood block. Laid by James Doherty.....	.....	38	1920	Sept. 11, 1925.
Massachusetts avenue (city proper)....	Southerly side Beacon street to Harvard Bridge. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	237	1,080	1902	
Matchett street (Brighton).....	Washington street to 35 feet south of Perthshire road. Mexican asphalt. Laid by Central Construction Company.	852	2,105	1917	July 5, 1922.

Matchett street (Brighton).....	35 feet south of Perthshire road to north street line Perthshire road. Mexican asphalt. Laid by Central Construction Company.	68	197	1919	June 12, 1924.
Maverick square (East Boston).....	Sumner street, across Maverick street. Aztec asphalt. Laid by Bermudez Company.	499	2,954	1917	Dec. 15, 1922.
Maverick street (East Boston).....	7 feet west of London street to 7 feet east of Havre street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	162	558	1903	
Maverick street (East Boston).....	At Maverick square. Aztec asphalt. Laid by Bermudez Company.....	11	45	1917	Dec. 15, 1922.
Maverick street (East Boston).....	Bridge over Boston & Albany Railroad. Trinidad asphalt. Laid by E. R. Taylor Company.....	38	59 72	1905-07 1906	
	Metropolitan brick block (in street car tracks).....				
May street (West Roxbury).....	At Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	57	214	1919	Aug. 12, 1924.
Mayfield street (Dorchester).....	56 feet east of Pleasant street to Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	56	136	1920	Sept. 22, 1925.
Mayfield street (Dorchester).....	Pleasant street to 40 feet west of Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	40	103	1920	Sept. 22, 1925.
Mayhew street (Dorchester).....	Roseclair street to Boston street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	846	2,461	1915	
Mayo street (city proper).....	7 feet south of Castle street to Cobb street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	244	406	1897	
Maywood street (Roxbury).....	At Blue Hill avenue. Mexican asphalt. Laid by Central Construction Company.	3	17	1919	†
McBride street (West Roxbury).....	At South street. Aztec asphalt. Laid by the Bermudez Company.....	3	11	1918	Sept. 28, 1923.
McCraw street (West Roxbury).....	Belgrade avenue to New York, New Haven & Hartford Railroad. Topeka (macadam base). Laid by Martino DeMatteo.	131	380	1920	Nov. 2, 1925.
McLean court (city proper).....	104 feet south of McLean street (front of William Blackstone School). Brick.....	25	41		†
	Asphalt (cobble base). Laid by the Bermudez Company.....	142	214		
McLean street (city proper).....	Chambers street to 8 feet east of Blossom street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	510	1,307	1905	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires
McLean street (city proper).....	8 feet east of Blossom street to Blossom street. Acme asphalt. Laid by Warren Brothers Company.....	} 8 {	39	1917	Nov. 15, 1922.
	Bessmer brick block gutters. Laid by Warren Brothers Company.....		3	1917	Nov. 15, 1922.
Meander street (city proper).....	7 feet east of East Dedham street to 8 feet west of Malden street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	292	416	1896	
Meander street (city proper).....	8 feet west of Malden street to Malden street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	8	11	1902	
Melrose street (city proper).....	Broadway to 7 feet west of Broadway. Pine wood block. Laid by Coleman Brothers.	7	19	1913	
Melrose street (city proper).....	7 feet west of Broadway to Arlington street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	737	1,885	1911	
Melton road (Brighton).....	Wallingford road to 61 feet north of tangent, south side of Nottingham road. Asphalt concrete. Laid by Charles M. Callahan.	455	1,905	1921	Sept. 15, 1926.
Melville avenue (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	40	1913	
Melvin side terrace (Dorchester).....	Dorchester avenue to Deer street. Bitulithic. Laid by James Doherty. At Deer street. Mexican asphalt. Laid by Central Construction Company.....	193	402	1915	
		.....	6	1919	Aug. 22, 1924.
Mercer street (South Boston).....	At Dorchester street. Bitulithic. Laid by Samuel J. Tomasello.....	4	16	1921	Aug. 31, 1926.
Meridian street (East Boston).....	At Maverick square. Aztec asphalt. Laid by Bernudez Company.....	9	12	1917	Dec. 15, 1922.
Meridian street (East Boston).....	24 feet north of Trenton street to 9 feet east of Eutaw street. Sicilian rock asphalt. Laid by Jones & Meehan.	221	540	1900	
Metropolitan avenue (Hyde Park).....	18 feet west of Hyde Park avenue to Hyde Park avenue. Topeka. Laid by Martino DeMatteo.	18	118	1921	May 12, 1926.
Metropolitan avenue (Hyde Park).....	Hyde Park avenue to 36 feet east of Hyde Park avenue. Topeka. Laid by Martino DeMatteo.	36	243	1921	May 12, 1926.

Middleton street (Dorchester)	At Norfolk street. Bitulithic. Laid by Warren Brothers Company	9	26	1918	Nov. 4, 1923.
Middleton street (Dorchester)	South street line of Wildwood street to 1 foot south of Theodore street. Bitulithic. Laid by Warren Brothers Company.	246	711	1919	May 27, 1924.
Middleton street (Dorchester)	Theodore street to 1 foot south of Theodore street. Mexican asphalt. Laid by Central Construction Company.	1	3	1917	July 26, 1922.
Milford street (city proper)	At Tremont street. Asphalt. Laid by B. E. Grant Company	14	48	1920	Sept. 18, 1925.
Milk street (city proper)	At Washington street. Pine wood block. Laid by B. E. Grant Company.	2	10	1917	Nov. 4, 1922.
Milk street (city proper)	11 feet west of Federal street to east side of Pearl street. Pine wood block. Laid by Coleman Brothers, Inc.	332	1,188	1921	Nov. 19, 1926.
Milk street (city proper)	East side of Pearl street, across Oliver street. Pine wood block. Laid by James Doherty.	280	1,086	1910	
Milk street (city proper)	Oliver street to 8 feet west of Broad street. Pine wood block. Laid by James Doherty.	279	1,045	1911	
Miller street (Charlestown)	10 feet west of Main street to Lawrence street. Sicilian rock asphalt. Laid by Jones & Meehan.	193	365	1901	
Millet street (Dorchester)	Each side of Talbot avenue. Mack brick block. Laid by James Doherty.	26	135	1911	
Milton avenue (Dorchester)	Each side of Norfolk street. Bitulithic. Laid by James Doherty	18	123	1914	
Milton street (city proper)	Spring street to 2 feet north of Spring street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	2	3	1895	
Milton street (city proper)	2 feet north of Spring street to Brighton street. Seyssel rock asphalt. Laid by Jones & Meehan.	306	271	1899	
Mindora street (Roxbury)	At Station street. Bitulithic. Laid by John F. Beatty	1	3	1914	
Minton street (West Roxbury)	Brookside avenue to Amory street. Topeka. Laid by Warren Brothers Company.	421	1,000	1918	June 18, 1923.
Montebello road (West Roxbury)	Forest Hills street to Walnut avenue. Bitulithic. Laid by Martino De Matteo.	1,077	3,051	1916	
Montclair avenue (West Roxbury)	At Centre street. Asphalt (macadam base). Laid by the Bermudez Company.	8	26	1920	May 5, 1926.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Montfern avenue (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	37	1920	July 8, 1925.
Montgomery street (city proper).....	Tremont street to 2 feet east of Clarendon street. Asphalt. Laid by B. E. Grant Company.	233	1,124	1920	Sept. 18, 1925.
Montgomery street (city proper).....	2 feet east of Clarendon street to Clarendon street. Bitulithic. Laid by Warren Brothers Company.	2	13	1913	
Montgomery street (city proper).....	Clarendon street to 3 feet west of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	3	16	1914	
Montgomery street (city proper).....	3 feet west of Clarendon street to 10 feet east of Dartmouth street. Asphalt (macadam base). Laid by B. E. Grant Company.	555	2,524	1920	Sept. 18, 1925.
Montgomery street (city proper).....	At West Canton street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	3	15	1916	
Moon street (city proper).....	North square to 5 feet east of North square. Bitulithic. Laid by Warren Brothers Company.	5	11	1906	
Moon street (city proper).....	5 feet east of North square to 6 feet west of Lewis street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	161	295	1891	
Moon street (city proper).....	6 feet west of Lewis street to 7 feet east of Fleet street. Bitulithic. Laid by Warren Brothers Company.	100	188	1906	
Moore street (East Boston).....	Saratoga street to 8 feet south of Saratoga street. Aztec asphalt. Laid by Bermudez Company.	8	34	1919	May 1, 1924.
Moore street (East Boston).....	8 feet east of Saratoga street to Pennington street. Aztec asphalt (macadam base). Laid by Bermudez Company.	170	553	1919	May 1, 1924.
Moore street (East Boston).....	8 feet west of Saratoga street to Saratoga street. Aztec asphalt. Laid by Bermudez Company.	8	34	1919	May 1, 1924.
Moraine street (West Roxbury).....	At South Huntington avenue. Asphalt concrete (macadam base). B. E. Grant Company.	12	65	1921	Unfinished.

	17	51	1920	Sept. 22, 1925
Morrill street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.			
Morse street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	1912	
Morton street (city proper).....	Salem street to 33 feet west of Salem street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	33	1901	
Morton street (city proper).....	33 feet west of Salem street to 84 feet east of Endicott street. Concrete road. Laid by John E. Leahy Construction Company.	209	1918	†
Morton street (city proper).....	84 feet east of Endicott street to 6 feet east of Endicott street. Mexican asphalt. Laid by Central Construction Company.	78	1919	†
Morton street (Dorchester).....	At Baird street. Bitulithic. Laid by Warren Brothers Company.....	290	1919	May 26, 1924.
Morton street (Dorchester).....	At Wilcock street. Topeka (macadam base). Laid by Rowe Contracting Company.	97	1920	July 7, 1925.
Morton street (Dorchester).....	At Havelock street. Topeka (macadam base). Laid by Rowe Contracting Company.	94	1920	July 28, 1925.
Morton street (Dorchester).....	Each side of Norfolk street. Bitulithic. Laid by Warren Brothers Company.	16	1918	Nov. 4, 1925.
Modley street (Roxbury).....	At Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Company.	21	1906	
Motte street (city proper).....	7 feet east of Washington street to 12 feet west of Harrison avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	317	1892-99	
Moulton street (Charlestown).....	Easterly side of Corey street to Vine street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	81	1897	
Moulton street (Charlestown).....	Vine street to 8 feet east of Bunker Hill street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	113	1897	
Moultrie street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	8	1913	
Mozart street (Roxbury).....	At Centre street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	9	1921	Unfinished.
Mt. Ida road (Dorchester).....	At Bowdoin street. Pine wood block. Laid by James Doherty.....	11	1909	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Mt. Ida road (Dorchester).....	201 feet north of Homes avenue to 182 feet north of Homes avenue. Aztec asphalt (macadam base). Laid by McGuire & McGourty.	19	54	1919	Dec. 26, 1924.
Mt. Ida road (Dorchester).....	182 feet north of Homes avenue to Homes avenue. Aztec asphalt. Laid by McGuire & McGourty.	182	522	1919	Dec. 26, 1924.
Mt. Ida road (Dorchester).....	West street line of Homes avenue (bend) to Robinson street. Aztec asphalt. Laid by McGuire & McGourty.	713	2,086	1919	Dec. 26, 1924.
Mt. Pleasant avenue (Roxbury).....	Each side of Dudley street. Mack brick block. Laid by James Doherty...	21	73	1910	
Mt. Vernon street (city proper).....	Archway under State House. Limmer rock and Acme asphalts mixed. Laid by Porter & Pearl.	164	455	1911	
Mt. Vernon street (city proper).....	State House to 7 feet west of Joy street. Canton block. Brick block.....	256	751	1901	
Mt. Vernon street (city proper).....	Charles street to 9 feet west of Charles street. Pine wood block. Laid by B. E. Grant Company.	9	36	1921	Nov. 19, 1926.
Mt. Vernon street (West Roxbury)....	At Centre street. Topeka. Laid by Rowe Contracting Company.....	14	24	1921	Aug. 26, 1926.
Murdock street (Brighton).....	At North Beacon street. Bitulithic. Laid by Warren Brothers Company.	10	31	1918	Dec. 24, 1923.
Murdock street (Brighton).....	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	19	64	1919	Sept. 4, 1924.
Murdock street (Brighton).....	7 feet north of Cushman road to 7 feet south of Cushman road. Asphalt. Laid by John J. Lane.	40	116	1921	May 2, 1926.
Museum road (Roxbury).....	Huntington avenue to the Fenway. Topeka. Laid by Warren Brothers Company.	625	2,072	1917-18	April 16, 1923.
Myrick street (Brighton).....	7 feet north of Easton street to 7 feet south of Easton street. Asphalt. Laid by John J. Lane.	40	120	1920	Nov. 20, 1925.
Myrtle street (city proper).....	9 feet west of Russell street to 5 feet west of east side Irving street. Topeka (macadam base). Laid by Rowe Contracting Company.	80	148	1921	†

		187	756	1910	
Mystic avenue (Charlestown).....	East side of bridge over Boston & Maine Railroad to Somerville line. Metropolitan brick.	187	756	1910	
Mystic street (city proper).....	Malden street to 7 feet west of Malden street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	7	6	1902	
Mystic street (city proper).....	7 feet west of Malden street to 7 feet east of East Dedham street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	190	209	1896	
Mystic street (city proper).....	East Dedham street to East Canton street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	202	315	1896	
Mystic street (city proper).....	East Canton street to East Brookline street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	202	315	1896	
N street (South Boston).....	East Fourth street to 8 feet south of East Fourth street. Pine wood block. Laid by John E. Quinn.	8	33	1919	May 24, 1925.
Naples road (Brighton).....	At Commonwealth avenue. Endurite (macadam base). Laid by Warren Brothers Company.	10	37	1912	
Nashua street (city proper).....	At post office. Pine wood block. Laid by city force.....	17	72	1916	
Nassau street (city proper).....	At Ash street. Acme asphalt. Laid by Warren Brothers Company.....	7	15	1909	
National street (South Boston).....	At Thomas park. Bitulithic. Laid by Warren Brothers Company.....	2	5	1905	
Nelson street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	15	71	1914	
Neponset avenue (Dorchester).....	Adams street to 25 feet south of Ashmont street (west side). Topeka. Laid by city force.	.....	3,596	1918	
Neptune road (East Boston).....	West side, Boston, Revere Beach & Lynn Railroad to Bennington street. Mexican asphalt. Laid by Central Construction Company.	1,700	8,492	1917-18	Aug. 2, 1923.
Neptune road (East Boston).....	Bennington street to 10 feet north of Bennington street. Aztec asphalt. Laid by Bermudez Company.	10	75	1919	May 1, 1924.
New Allen street (Hyde Park).....	Bridge over Boston & Providence Railroad. Pine wood block. Laid by V. Grande.	215	591	1921	†
Newburn street (Roxbury).....	Sterling street to Weston street. Topeka. Laid by Central Construction Company.	291	650	1919	July 7, 1924.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Newbury street (city proper).....	Arlington street to Berkeley street. Warren Brothers Company.	632	2,524	1919	June 4, 1924.
Newbury street (city proper).....	Berkeley street to Clarendon street. Warren Brothers Company.	576	2,327	1919	June 4, 1924.
Newbury street (city proper).....	Clarendon street to Dartmouth street. by Warren Brothers Company.	575	2,333	1919	June 4, 1924.
Newbury street (city proper).....	Dartmouth street to Exeter street. Warren Brothers Company.	555	2,224	1919	June 4, 1924.
Newbury street (city proper).....	Exeter street to Fairfield street. Warren Brothers Company.	622	2,500	1919	June 4, 1924.
Newbury street (city proper).....	Fairfield street to 10 feet west of Fairfield street. base). Laid by Warren Brothers Company.	10	41	1919	June 4, 1924.
Newbury street (city proper and Rox- bury).	10 feet west of Fairfield street to 8 feet east of Hereford street. block. Laid by United States Wood Preserving Company.	937	3,748	1901	
Newbury street (Roxbury).....	8 feet east of Hereford street to 300 feet east of Massachusetts avenue. wood block. Laid by Patrick McGovern.	413	1,652	1906	
Newbury street (Roxbury).....	Massachusetts avenue to 16 feet west of Massachusetts avenue. asphalt. Laid by James Doherty.	16	55	1914	
Newland street (city proper).....	West Brookline street to Pembroke street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	158	228	1902	
Newland street (city proper).....	Pembroke street to 40 feet north of West Newton street. asphalt. Laid by Boston Asphalt Company.	122	176	1902	
Newland street (city proper).....	40 feet north of West Newton street to West Newton street. concrete. Laid by Andrews Construction Company.	40	58	1921	July 18, 1926.
Nightingale street (Dorchester).....	At Talbot avenue. Mack brick block. Laid by James Doherty.....	13	81	1911	

Nonantum street (Brighton)	At Washington street. Asphalt (macadam base). Laid by city forces	33	120	1921
Norfolk street (Dorchester)	Washington street to 6 feet south of Washington street. Pine wood block. Laid by William J. Barry.	6	75	1913
Norfolk street (Dorchester)	78 feet west of Talbot avenue to 57 feet east of Edison street. Bitulithic. Laid by James Doherty	1,795 {	6,550	1913
Norfolk street (Dorchester)	Pine wood block. (Brows to street car rails.) Laid by James Doherty		538	1913
Norfolk street (Dorchester)	57 feet east of Edison street to 51 feet east of bridge over New York, New Haven & Hartford Railroad, Midland Division. Bitulithic. Laid by James Doherty	2,292 {	8,071	1914
Norfolk street (Dorchester)	Pine wood block. (Brows to street car rails.) Laid by James Doherty		671	1914
Norfolk street (Dorchester)	51 feet east of bridge over New York, New Haven & Hartford Railroad, Midland Division, to bridge over New York, New Haven & Hartford Railroad, Midland Division. Bitulithic. Laid by Warren Brothers Company.	51	200	1919
Norfolk street (Dorchester)	Bridge over New York, New Haven & Hartford Railroad, Midland Division, to 75 feet west of bridge over New York, New Haven & Hartford Railroad, Midland Division. Bitulithic. Laid by Warren Brothers Company.	75	345	1919
Norfolk street (Dorchester)	75 feet west of bridge over New York, New Haven & Hartford Railroad, Midland Division, to Blue Hill avenue. Bitulithic. Laid by Warren Brothers Company.	3,592	17,692	1918
Norfolk street (Dorchester)	7 feet north of Green street to South Margin street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	391	697	1905
Norfolk street (Dorchester)	North side Intervale street to Devon street. Aztec asphalt. Laid by Central Construction Company.	485	1,403	1916
Norfolk street (Dorchester)	Seaver street to 7 feet south of Seaver street. Asphalt concrete. Laid by Simpson Brothers Corporation.	7	22	1921
Norfolk street (Dorchester)	7 feet south of Seaver street to Columbia road. Trinidad asphalt. Laid by James Doherty.	459	1,330	1915
North square (city proper)	North street to Moon street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	235	1,217	1906
Northampton street (city proper)	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length In Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Northampton street (city proper)	North side Tremont street. Asphalt. Laid by Bernard E. Grant Com- pany.	.....	6	1920	Sept. 18, 1925.
Northampton street (city proper)	14 feet south of Tremont street to 9 feet north of Shawmut avenue. Pine wood block. Laid by Fred S. & A. D. Core Corporation.	894	3,370	1911	
Northampton street (city proper)	Shawmut avenue to Washington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	370	648	1905	
Northampton street (city proper)	At Albany street. Pine wood block. Laid by Bernard E. Grant . . . . .	.....	47	1917	Jan. 19, 1923.
North Anderson street (city proper)	7 feet south of Parkman street to Parkman street. Acme asphalt. Laid by Warren Brothers Company	7 {	16	1916	
North Anderson street (city proper)	Bessener brick block gutters. Laid by Warren Brothers Company		4	1916	
North Anderson street (city proper)	Parkman street to Fruit street. Acme asphalt. Laid by Warren Brothers Company	77 {	174	1916	
North Anderson street (city proper)	Bessener brick block gutters. Laid by Warren Brothers Company		43	1916	
North Beacon street (Brighton)	Cambridge street to 1 foot east of Market street. Bitulithic. Laid by Warren Brothers Company.	3,237	11,852	1918	Dec. 24, 1923.
North Beacon street (Brighton)	1 foot east of Market street to Market street. Sinasco. Laid by Simpson Brothers Corporation.	1	10	1921	June 20, 1926.
North Beacon street (Brighton)	Market street to 11 feet west of Market street. Sinasco. Laid by Simpson Brothers Corporation.	11	55	1921	June 20, 1926.
North Beacon street (Brighton)	12 feet west of Market street to 620 feet west of Market street. Asphalt concrete. Laid by John Kelly Company.	608	2,719	1921	Unfinished.
North Beacon street (Brighton)	East side of bridge over Charles river to the Watertown line. Pine wood block. Laid by A. G. Tomasello.	193	1,170	1917	†
North Bennet street (city proper)	Hanover street to Salem street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	455	910	1904	

North Grove street (city proper).....	Cambridge street to Fruit street. Acme asphalt. Laid by Warren Brothers Company.....	1,265 245	1917 1917	Aug. 24, 1922. Aug. 24, 1922.
North Harvard street (Brighton).....	Bessener brick block gutters. Laid by Warren Brothers Company.....			
North Harvard street (Brighton).....	At Easton street. Asphalt (macadam base). Laid by John J. Lane.....	43	1920	Nov. 20, 1925.
North Margin street (city proper).....	33 feet north of Soldiers Field road to Cambridge line. Pine wood block. Laid by Rowe Contracting Company.	219	1914	
North Margin street (city proper).....	Stillman street to 6 feet south of Thacher street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	511	1895	
North Margin street (city proper).....	6 feet north of Thacher street to 190 feet north of Thacher street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	184	1897	
North Russell street (city proper).....	Cambridge street, across Eaton street. Aztec asphalt. Laid by Bernudez Company.	434	1917	Nov. 3, 1922.
Norton street (Dorchester).....	East side of Bowdoin street. Aztec asphalt. Laid by Bernudez Company.	28	1919	May 9, 1924.
Norway street (Roxbury).....	Palmouth street to 4 feet west of St. Paul street. Pine wood block. Laid by United States Wood Preserving Company.	307	1909	
Norway street (Roxbury).....	East side of Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	8	1901	
Norwell street (Dorchester).....	At Talbot avenue. Mack brick block. Laid by James Doherty.....	13	1911	
Norwich street (city proper).....	Mystic street to Meander street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	221	1896	
O street (South Boston).....	East side of East Fourth street. Pine wood block. Laid by John E. Quinn.	18	1920	May 24, 1925.
Oakdale street (West Roxbury).....	At Green street. Topeka (macadam base). Laid by Central Construction Company.	7	1921	June 3, 1926.
Oakland street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	1920	July 8, 1925.
Oakley street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces.	1	1920	
Oak square avenue (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	11	1920	July 8, 1925.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Oakview terrace (West Roxbury).....	At Centre street. Topoka (macadam base). Laid by Central Construction Company.	10	50	1920	Dec. 22, 1925.
Oakwood street (Dorchester).....	At Norfolk street. Bitulithic Laid by James Doherty.....	1	4	1913	
Ohio street (city proper).....	Washington street to Shawmut avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	329	264	1896	
Oliver street (city proper).....	Milk street to 152 feet southerly. Pine wood block. Laid by James Doherty.	152	591	1910	
* Olmsted park, Jamaicaaway (Roxbury).....	South curb line of Huntington avenue to 395 feet north of Willow Pond road. Bitulithic (macadam base). Laid by Warren Brothers Company.	2,400	9,342	1920	July 28, 1925.
* Olmsted park, Jamaicaaway (Roxbury and West Roxbury).	395 feet north of Willow Pond road to 166 feet south of Lockstead avenue. Asphalt concrete (macadam base). Laid by Central Construction Company.	3,100	14,333	1921	Aug. 24, 1926.
Olney street (Dorchester).....	At Bowdoin street. Aztec asphalt (macadam base). Laid by Bermudez Company.	30	166	1919	May 9, 1924.
Olney street (Dorchester).....	At Geneva avenue. Mack brick block. Laid by Central Construction Company.	32	204	1911	
Onida street (city proper).....	7 feet east of Harrison avenue to 27 feet west of Albany street. Bitulithic. Laid by Warren Brothers Company.	480	1,014	1903	
Onida street (city proper).....	27 feet west of Albany street to 13 feet west of Albany street. Asphalt. Laid by Bermudez Company.	14	29	1920	†
Orchard street (Roxbury).....	At Enstis street. Bitulithic. Laid by John F. Beatty.....	1	4	1914	
Orchard street (West Roxbury).....	At Centre street. Topoka (macadam base). Laid by Rowe Contracting Company.	9	27	1919	Aug. 12, 1924.
Orchardfield street (Dorchester).....	Freeport street to Dorchester avenue. Aztec asphalt. Laid by Central Construction Company.	814	1,266	1916	

			11	1919	Nov. 1, 1924.
Oregon street (Roxbury).....	At Conant street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7		1919	
Oriole street (West Roxbury).....	Bellevue street to Emmons road. Asphalt concrete. Laid by Martino De Mateo.	425	1,237	1921	July 8, 1926.
Opera place (Roxbury).....	At Huntington avenue. Asphalt concrete (macadam base). Laid by Andrews Construction Company.	12	49	1921	July 8, 1926.
Oswego street (city proper).....	Harrison avenue to 13 feet west of Albany street. Asphalt. Laid by Bermudez Company.	499	1,053	1920	†
Otis street (city proper).....	At Summer street. Pine wood block. Laid by Northern Construction Company.	8	29	1915	
Oxford street (city proper).....	Essex street to 195 feet south of Essex street. Asphalt. Laid by Rowe Contracting Company.	195	339	1921	†
Oxford street (city proper).....	195 feet south of Essex street to 8 feet north of Beach street. Mexican asphalt. Laid by Central Construction Company.	229	409	1917	†
Pacific street (South Boston).....	At Thomas park. Bitulithic. Laid by Warren Brothers Company.....	3	7	1905	
Paisley park (Dorchester).....	At Upland avenue. Aztec asphalt. Laid by Central Construction Company.	15	53	1916	
Palmer street (Roxbury).....	121 feet east of Winslow street to 203 feet west of Eustis street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	132	293	1906	
Park square (city proper).....	Boylston street to 100 feet south of Boylston street. Pine wood block. Laid by United States Wood Preserving Company.	100 2	715 290	1914 1915	
Park square (city proper).....	100 feet south of Boylston street, across Eliot street. Black gum wood block. Laid by United States Wood Preserving Company.	382	2,797	1907	
Park square (city proper).....	At Providence street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	.....	325	1912	
Park street (city proper).....	At Tremont street. Pine wood block. Laid by Coleman Brothers.....	6	34	1915	
Park street (city proper).....	38 feet north of Tremont street to 152 feet south of Beacon street. Filter-tine. Laid by Warren Brothers Company.	326	959	1918	July 26, 1923.
Park street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces.	.....	2	1920	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Park street (Dorchester).....	Each side of Washington street. Pine wood block. Laid by William J. Barry.	20	80	1913	
Park street (West Roxbury).....	At Atwill road. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	40	1919	Oct. 22, 1924.
Park street (West Roxbury).....	53 feet north of Centre street to 11 feet north of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	42	120	1921	Aug. 26, 1926.
Park street (West Roxbury).....	11 feet north of Centre street to Centre street. Topeka. Laid by Rowe Contracting Company.	11	34	1921	Aug. 26, 1926.
Park street (West Roxbury).....	Centre street to 10 feet south of Centre street. Topeka. Laid by Rowe Contracting Company.	10	31	1921	Aug. 26, 1926.
Park street (West Roxbury).....	10 feet south of Centre street to 45 feet south of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	35	102	1921	Aug. 26, 1926.
Parker street (Roxbury).....	10 feet north of Edgar street to 8 feet south of Caldwell street. Bitulithic. Granite block base. Laid by Warren Brothers Company.	218	837	1912	
Parker street (Roxbury).....	8 feet south of Caldwell street to 6 feet north of Ward street. Standard asphalt and Aztec asphalt (granite block base). Laid by Central Construction Company.	457	1,767	1917	†
Parker street (Roxbury).....	8 feet north of Conant street to Tremont street. Aztec asphalt (macadam base). Laid by Bernudez Company.	651	2,532	1919	Oct. 25, 1924.
Parkland street (Brighton).....	Winship street to Academy Hill road. Aztec asphalt. Laid by Coleman Brothers.	460	524	1917	Oct. 16, 1922.
Parkman street (city proper).....	North Grove street to 7 feet east of North Anderson street. Acme asphalt. Laid by Warren Brothers Company.	203	369 100	1916 1916	
Parkman street (city proper).....	Bessener brick block gutters. Laid by Warren Brothers Company.	234	534	1898	
Parkman street (city proper).....	7 feet east of North Anderson street, across Blossom street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.				

Parkman street (city proper).....	Blossom street to 7 feet west of North Russell street. Laid by Warren Brothers Company.	Acme asphalt.	Laid	229	476	1910	
Parkman street (city proper).....	7 feet west of North Russell street to North Russell street. Laid by Bermudez Company.	Aztec asphalt.		7	12	1917	Nov. 3, 1922.
Parkton road (West Roxbury).....	Perkins street to Perkins street. Concrete road. Laid by city forces.....			1,169	2,903	1916	
Parkvale avenue (Brighton).....	Brighton avenue to 10 feet south of Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.			10	22	1917	Dec. 7, 1922.
Parkvale avenue (Brighton).....	10 feet south of Brighton avenue to Glenville avenue. Aztec asphalt. Laid by Bermudez Company.			879	2,548	1918	July 25, 1923.
Parkview street (Roxbury).....	At Scaver street. Acme asphalt (macadam base). Laid by Warren Brothers Company.			20	80	1917	Sept. 17, 1922.
Parkwood terrace (West Roxbury).....	At Parkton road. Concrete. Laid by city forces.....			5	12	1917	
Parmenter street (city proper).....	9 feet west of Hanover street to 9 feet east of Salem street. Laid by Barber Asphalt Paving Company.	Trinidad asphalt.		265	723	1902	
Parmenter street (city proper).....	5 feet east of Salem street to Salem street. Sicilian rock asphalt. Laid by Boston Asphalt Company.			5	15	1901	
Parnell street (city proper).....	Lenox street to Sawyer street. Trinidad asphalt. Laid by Barber Asphalt Paving Company			250	348	1902	
Parsons street (Brighton).....	At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.			10	65	1919	July 8, 1925.
Paul street (city proper).....	Emerald street to 1 foot west of Emerald street. Bitulithic. Laid by Warren Brothers Company.			1	2	1904	
Paul street (city proper).....	1 foot west of Emerald street to 10 feet east of Tremont street, minus intersections at Village and Albion streets. Scyssel rock asphalt. Laid by Jones & Meehan.			368	635	1897	
Paul Gore street (West Roxbury).....	At Centre street. Topeka (macadam base). Laid by Central Construction Company.			9	28	1920	Dec. 22, 1925.
Paul street (city proper).....	10 feet east of Tremont street to Tremont street. Topeka. Laid by Rowe Contracting Company.			10	17	1919	May 31, 1924.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Peacevale road (Dorchester).....	Norfolk street to 1 foot south of Norfolk street. Bitulithic. Laid by James Doherty.	1	4	1914	
Peacevale road (Dorchester).....	1 foot south of Norfolk street to 7 feet north of Dunbar avenue. Trinidad asphalt. Laid by D. M. Biggs & Co.	801	2,315	1915	
Pearl street (city proper).....	Milk street to 153 feet south of Milk street. Pine wood block. Laid by James Doherty.	153	508	1910	
Pearl street (Dorchester).....	At Dorchester avenue. Pine wood block. Laid by William J. Barry.....	10	27	1919	Aug. 21, 1924.
Pearl street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	15	44	1920	Sept. 22, 1925.
Pelham street (city proper).....	Washington street to Shawmut avenue. Mexican asphalt. Laid by Central Construction Company.	303	655	1917	+
Pemberton square (city proper).....	Front of Suffolk County Courthouse. Sicilian rock asphalt. Laid by Boston Asphalt Company.	323	1,365	1894	
Pembroke street (city proper).....	Each side of Tremont street. Asphalt. Laid by B. E. Grant Company....	32	125	1920	Sept. 18, 1925.
Pembroke street (city proper).....	At Columbus square. Bitulithic. Laid by Fred S. & A. D. Gore Corporation.	4	17	1912	
Percival street (Dorchester).....	At Bowdoin street. Topeka (macadam base). Laid by city forces.....	2	7	1918	
Perham street (West Roxbury).....	New York, New Haven & Hartford Railroad to Vermont street. Mexican asphalt. Laid by Central Construction Company.	2,630	6,195	1917	Sept. 12, 1922.
Perkins street (West Roxbury).....	Centre street to 111 feet west of Centre street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	111	560	1921	Unfinished.
Perth street (Dorchester).....	Quincy street to Fayston street. Bitulithic. Laid by James Doherty....	218	630	1915	
Perthshire road (Brighton).....	Bigelow street to Matchett street. Mexican asphalt. Laid by Central Construction Company.	593	1,716	1919	June 12, 1924.

Phillips street (Roxbury).....	Conant street to 7 feet south of Conant street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7	18	1919	Nov. 1, 1924.
Phillips street (Roxbury).....	7 feet north of Smith street to Smith street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7	19	1919	Nov. 1, 1924.
Phillips street (Roxbury).....	Smith street to 7 feet south of Smith street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7	16	1919	Nov. 24, 1924.
Piedmont street (city proper).....	At Broadway. Pine wood block. Laid by Coleman Brothers.....	11	26	1913	
Pineknay street (city proper).....	Charles street to 9 feet west of Charles street. Pine wood block. Laid by B. E. Grant Company.	9	22	1921	Nov. 19, 1926.
Pineknay street (city proper).....	9 feet west of Charles street to 84 feet west of Charles street. Asphalt. Laid by Rowe Contracting Company.	75	196	1921	‡
Pineknay street (city proper).....	84 feet west of Charles street, across Brimmer street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	179	500	1895	
Pine street (city proper).....	7 feet east of Washington street to 10 feet west of Harrison avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	403	567	1896	
Pleasant street (Dorchester).....	East Cottage street to north side of Stoughton street. Topeka (macadam base). Laid by Central Construction Company.	1,415	5,823	1920	Sept. 22, 1925.
Pleasant street (Dorchester).....	North side of Stoughton street to 20 feet south of Savin Hill avenue. Topeka. Laid by Francis J. Burke.	854	2,546	1920	Dec. 18, 1925.
Pleasant street (Dorchester).....	20 feet south of Savin Hill avenue to 49 feet south of Savin Hill avenue. Topeka (macadam base). Laid by Francis J. Burke.	29	130	1920	Dec. 18, 1925.
Pleasant street (Dorchester).....	84 feet north of Hancock street to Hancock street. Bessemer brick block. Laid by Fred S. & A. D. Gore Corporation.	84	1,112	1911	
Pondview avenue (West Roxbury).....	At Halifax street. Asphalt concrete. Laid by Martino DeMatteo.....	.....	3	1921	July 6, 1926.
Pontiac street (Roxbury).....	Tremont street to Hillside street. Asphalt concrete. Laid by John McCourt Company.	936	2,710	1921	June 28, 1926.
Pope street (East Boston).....	At Saratoga street. Aztec asphalt. Laid by Bermudez Company.....	20	211	1919	May 1, 1924.
Poplar street (city proper).....	Chambers street, across Spring street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	615	1,250	1892	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Poplar street (city proper)	Spring street to 8 feet south of Charles street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	572	1,175	1887	
Porter street (city proper)	Bridge over Boston Elevated Railway. Pine wood block. Laid by Coleman Brothers.	11	18	1913	
Porter street (East Boston)	Bridge over Boston & Albany Railroad. Acme asphalt. Laid by W. A. Murtfeldt Company.	37	128	1907	
Porter street (East Boston)	11 feet south of Chelsea street to Chelsea street. Asphalt concrete (macadam base). Laid by Coleman Brothers, Inc.	11	42	1921	July 19, 1926.
Porter street (East Boston)	Chelsea street to 12 feet north of Chelsea street. Asphalt concrete (macadam base). Laid by Coleman Brothers, Inc.	12	45	1921	July 19, 1926.
Porter street (Roxbury)	At Amory street. Mexican asphalt (macadam base). Laid by Central Construction Company.	8	21	1919	Dec. 6, 1924.
Post Office square (city proper)	Water street to Milk street. Pine wood block. Laid by Coleman Brothers, Inc.	237	2,444	1921	Nov. 19, 1926.
Powellton road (Dorchester)	Columbia road to Glenarm street. Bitulifidic. Laid by James Doherty....	329	950	1915	
Prattiss street (Roxbury)	Each side Columbus avenue. Bermudez asphalt. Laid by Boston Asphalt Company.	10	36	1906	
Prescott street (Charlestown)	At Harvard street. Aztec asphalt (macadam base). Laid by Bermudez Company.	.....	13	1918	June 8, 1923.
Prescott street (East Boston)	Bridge over Boston & Albany Railroad. Acme asphalt. Laid by W. A. Murtfeldt Company.	36	125	1907	
Prescott street (East Boston)	13 feet south of Chelsea street to Chelsea street. Asphalt concrete (macadam base). Laid by Coleman Brothers Company.	13	50	1921	July 19, 1926.
Prescott street (East Boston)	Chelsea street to 24 feet north of Chelsea street. Asphalt concrete (macadam base). Laid by Coleman Brothers Company.	24	91	1921	July 19, 1926.

Prince street (city proper).....	Garden Court street to Hanover street. Laid by Warren Brothers Company.	134	223	1906
Prince street (city proper).....	9 feet west of Hanover street to 293 feet west of Hanover street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	284	634	1895
Prince street (city proper).....	293 feet west of Hanover street to 15 feet east of Salem street. Sicilian rock asphalt. Laid by Jones & Meehan.	198	457	1900
Prince street (city proper).....	15 feet east of Salem street to Salem street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	15	40	1901
Prince street (West Roxbury).....	Arborway at Centre street to 1 foot north of Arborway. Topeka (macadam base). Laid by Rowe Contracting Company.	1	8	1919
Prince street (West Roxbury).....	1 foot north of Arborway to Pond street. Trinidad asphalt. Laid by Charles J. Jacobs Company.	1,379	4,079	1915
Providence street (city proper).....	Park square to 75 feet east of Church street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	161	1,400	1912
Providence street (city proper).....	At east side of Church street. Bessemer brick block. Laid by Coleman Brothers.	.....	23	1918
Providence street (city proper).....	Arlington street to 5 feet west of Arlington street. Bessemer brick block. Laid by Coleman Brothers.	5	19	1918
Public Alley No. 12 (city proper).....	Poplar street to Public Alley No. 14. Sicilian rock asphalt. Laid by Boston Asphalt Company.	77	68	1903
Public Alley No. 102 (city proper).....	23 feet south of Marshall street to Creek square. Seyssel rock asphalt. Laid by Jones & Meehan.	182	184	1899
Public Alley No. 301 (city proper).....	Pineknay street to River street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	270	400	1897
Public Alley No. 401 (city proper).....	Between Huntington avenue and St. Botolph street, from 96 feet west of Irvington street to 60 feet east of Garrison street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	350	362	1899
Public Alley No. 402 (city proper).....	Between Huntington avenue and St. Botolph street, from 67 feet west of Garrison street to 77 feet east of West Newton street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	358	374	1899

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Public Alley No. 403 (city proper).....	Between Huntington avenue and St. Botolph street, from 65 feet west of West Newton street to 62 feet east of Cumberland street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	355	370	1899	
Public Alley No. 404 (Roxbury).....	Between Huntington avenue and St. Botolph street, from 66 feet south of Cumberland street to Public Alley No. 405. Trinidad asphalt. Laid by Simpson Brothers Corporation.	534	533	1899	
Public Alley No. 405 (Roxbury).....	Rear of northeast side of Massachusetts avenue, from 94 feet east of Huntington avenue to 62 feet west of St. Botolph street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	100	89	1899	
Public Alley No. 414 (city proper).....	Between Beacon street and Marlborough street, from 53 feet east of Massachusetts avenue to Hereford street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	609	569	1901	
Public Alley No. 415 (city proper).....	Between Beacon street and Marlborough street, from Hereford street to Gloucester street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	394	378	1901	
Public Alley No. 416 (city proper).....	Between Beacon street and Marlborough street, from Gloucester street to Fairfield street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	520	490	1901	
Public Alley No. 417 (city proper).....	Between Beacon street and Marlborough street, from Fairfield street to Exeter street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	620	579	1901	
Public Alley No. 418 (city proper).....	At Dartmouth street. Bitulithic. Laid by Warren Brothers Company....	4	4	1903	
Public Alley No. 419 (city proper).....	Dartmouth street to 4 feet east of Dartmouth street. Bitulithic. Laid by Warren Brothers Company.	4	4	1903	
Public Alley No. 419 (city proper).....	Between Beacon street and Marlborough street, from 4 feet east of Dartmouth street to 12 feet west of Clarendon street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	550	488	1899	

Public Alley No. 419 (city proper).....	12 feet west of Clarendon street to Clarendon street. Laid by Warren Brothers Company.	Bitulithic.	Laid by	12	11	1905
Public Alley No. 420 (city proper).....	Clarendon street to 10 feet east of Clarendon street. Laid by Warren Brothers Company.	Bitulithic.	Laid by	10	9	1905
Public Alley No. 420 (city proper).....	Between Beacon street and Marlborough street, from 10 feet east of Clarendon street to Berkeley street. Trinidad asphalt. Laid by Simpson Brothers Corporation.			561	498	1897
Public Alley No. 421 (city proper).....	15 feet west of Arlington street to 3 feet west of Arlington street. Vitrified brick.			12	11	
Public Alley No. 421 (city proper).....	3 feet west of Arlington street to Arlington street. Laid by Barber Asphalt Paving Company.	Trinidad asphalt.	Laid by	3	3	1901
Public Alley No. 422 (city proper).....	Between Commonwealth avenue and Marlborough street, from Arlington street to Berkeley street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.			620	579	1902
Public Alley No. 423 (city proper).....	Between Commonwealth avenue and Marlborough street, from Berkeley street to 3 feet east of Clarendon street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.			574	538	1902
Public Alley No. 423 (city proper).....	3 feet east of Clarendon street to Clarendon street. Laid by Warren Brothers Company.	Bitulithic.	Laid by	3	3	1905
Public Alley No. 424 (city proper).....	Clarendon street to 3 feet west of Clarendon street. Laid by Warren Brothers Company.	Bitulithic.	Laid by	3	3	1905
Public Alley No. 424 (city proper).....	Between Commonwealth avenue and Marlborough street, from 3 feet west of Clarendon street to 3 feet east of Dartmouth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.			549	487	1902
Public Alley No. 424 (city proper).....	3 feet east of Dartmouth street to Dartmouth street. Laid by Warren Brothers Company.	Bitulithic.	Laid by	3	3	1903
Public Alley No. 425 (city proper).....	Dartmouth street to 8 feet west of Dartmouth street. Laid by Warren Brothers Company.	Bitulithic.	Laid by	8	7	1903
Public Alley No. 425 (city proper).....	Between Commonwealth avenue and Marlborough street, from 8 feet west of Dartmouth street to 9 feet east of Exeter street. Trinidad asphalt. Laid by Simpson Brothers Corporation.			548	478	1899

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Public Alley No. 426 (city proper).....	Between Commonwealth avenue and Marlborough street, from Exeter street to Fairfield street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	620	591	1901	
Public Alley No. 428 (city proper and Roxbury).	Between Commonwealth avenue and Marlborough street, from Gloucester street to Hereford street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	392	376	1901	
Public Alley No. 429 (Roxbury).....	Between Commonwealth avenue and Marlborough street, from 55 feet west of Hereford street to 77 feet east of Massachusetts avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	530	501	1901	
Public Alley No. 429 (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	5	4	1901	
Public Alley No. 430 (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	7	6	1901	
Public Alley No. 431 (city proper and Roxbury).	Between Commonwealth avenue and Newbury street, from 7 feet east of Hereford street to 83 feet west of Gloucester street. Trinidad asphalt. Laid by Simpson Brothers Corporation.	305	271	1899	
Public Alley No. 433 (city proper).....	At Exeter street. Bitulithic (macadam base). Laid by Warren Brothers Company.	10	9	1919	June 4, 1924.
Public Alley No. 434 (city proper).....	Exeter street to 17 feet east of Exeter street. Bitulithic (macadam base)...	17	17	1919	June 4, 1924.
Public Alley No. 434 (city proper).....	Between Commonwealth avenue and Newbury street, from 17 feet east of Exeter street to 3 feet west of Dartmouth street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	535	463	1901	
Public Alley No. 434 (city proper).....	3 feet west of Dartmouth street to Dartmouth street. Bitulithic. Laid by Warren Brothers Company.	3	3	1903	
Public Alley No. 435 (city proper).....	At Dartmouth street. Bitulithic. Laid by Warren Brothers Company....	3	3	1903	
Public Alley No. 435 (city proper).....	At Clarendon street. Bitulithic. Laid by Warren Brothers Company.....	4	4	1905	

Public Alley No. 436 (city proper).....	Clarendon street to 15 feet east of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	15	13	1905
Public Alley No. 436 (city proper).....	Between Commonwealth avenue and Newbury street, from 15 feet east of Clarendon street to Berkeley street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	562	528	1901
Public Alley No. 437 (city proper).....	Between Commonwealth avenue and Newbury street, from Berkeley street to Arlington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	628	558	1898
Public Alley No. 438 (city proper).....	Arlington street to 3 feet west of Arlington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	3	3	1901
Public Alley No. 438 (city proper).....	Between Newbury street and Boylston street, from 3 feet west of Arlington street to 3 feet east of Berkeley street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	625	583	1901
Public Alley No. 438 (city proper).....	3 feet east of Berkeley's street to Berkeley street. Bitulithic. Laid by Warren Brothers Company.	3	3	1903
Public Alley No. 439 (city proper).....	Clarendon street to 3 feet west of Clarendon street. Bitulithic. Laid by Warren Brothers Company.	3	3	1905
Public Alley No. 439 (city proper).....	Clarendon street to Dartmouth street. Vitrified brick.....	553	492	1894
Public Alley No. 439 (city proper).....	At Dartmouth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1	1	1894
Public Alley No. 440 (city proper).....	Between Newbury street and Boylston street, from Dartmouth street to 3 feet west of Dartmouth street. Bitulithic. Laid by Coleman Brothers.	3	7	1914
Public Alley No. 440 (city proper).....	Between Newbury street and Boylston street, from 3 feet west of Dartmouth street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	5	4	1901
Public Alley No. 440 (city proper).....	Between Newbury street and Boylston street, from 8 feet west of Dartmouth street to 12 feet east of Exeter street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	535	507	1901
Public Alley No. 440 (city proper).....	12 feet east of Exeter street to Exeter street. Bitulithic (macadam base). Laid by Warren Brothers Company.	12	11	1919
Public Alley No. 441 (city proper).....	Exeter street to 14 feet west of Exeter street. Bitulithic. Warren Brothers Company.	14	13	1919
				June 24, 1924.
				June 29, 1924

List of Streets Having a Smooth Pavement.—Continued.

Streets.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Public Alley No. 441 (city proper)	Between Newbury street and Boylston street, from 14 feet west of Exeter street to Fairfield street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	606	538	1903	
Public Alley No. 442 (city proper)	Between Newbury street and Boylston street, from 59 feet west of Fairfield street to 110 feet east of Gloucester street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	351	312	1901	
Public Alley No. 442 (city proper)	Between Newbury street and Boylston street, from 110 feet east of Gloucester street to Gloucester street. Pine wood block. Laid by Boston Asphalt Company.	100	89	1901	
Public Alley No. 444 (Roxbury)	350 feet west of Hereford street to 532 feet west of Hereford street. Concrete road. Laid by Boston Transit Commission.	182	318	1914-15	
Public Alley No. 701 (city proper)	Tremont street to 15 feet east of Tremont street. Asphalt. Laid by B. E. Grant Company.	15	22	1920	Sept. 18, 1925.
Public Alley No. 701 (city proper)	Between Union Park street and Upton street, from 130 feet east of Tremont street to Shawmut avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	521	611	1899	
Public Alley No. 702 (city proper)	Between Shawmut avenue and Tremont street, from Worcester street to 7 feet southwest of Worcester street. Mexican asphalt (macadam base). Laid by Central Construction Company.	7	7	1919	Nov. 11, 1924.
Public Alley No. 702 (city proper)	Between Shawmut avenue and Tremont street, from 7 feet southwest of Worcester street to West Springfield street. Seyssel rock asphalt. Laid by Jones & Meehan.	208	208	1899	
Public Alley No. 703 (city proper)	40 feet west of Newland street to 40 feet east of Public Alley No. 702. Seyssel rock asphalt. Laid by Jones & Meehan.	118	103	1899	
Public Alley No. 705 (city proper)	At Tremont street. Asphalt. Laid by B. E. Grant Company.	14	25	1920	Sept. 18, 1925.
Public Alley No. 705 (city proper)	Street line to Tremont street to street line of Shawmut avenue. Concrete. . .	649	1,262		

Public Alley No. 818 (Roxbury).....	Concrete.....	.....	11	
Public Alley No. 901 (Roxbury).....	From 113 feet west of Hemenway street to 113 feet west of Hemenway street, Sicilian rock asphalt. Laid by Boston Asphalt Company.	573	550	1902
Public Alley No. 905 (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. - Laid by Boston Asphalt Company.	5	4	1901
Public Alley No. 908 (Roxbury).....	Massachusetts avenue to Marlborough street. Barrington brick block. Laid by Boston Construction Company.	552	493	1915
Putnam street (East Boston).....	13 feet south of Chelsea street to Chelsea street. Asphalt concrete (macadam base). Laid by Coleman Brothers Company.	13	49	1921
Putnam street (East Boston).....	Chelsea street to 35 feet north of Chelsea street. Asphalt concrete (macadam base). Laid by Coleman Brothers Company.	35	133	1921
Quincy street (Dorchester).....	At Bowdoin street. Topeka (macadam base). Laid by city force.....	8	41	1918
Quint avenue (Brighton).....	At Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	10	22	1917
Raleigh street (Roxbury).....	At Beacon street. Aztec asphalt (macadam base). Laid by Bermudez Company.	12	27	1918
Ralston street (South Boston).....	Each side of Dorchester avenue. Pine wood block. Laid by William J. Barry.	20	57	1919
Randall street (city proper and Roxbury).....	8 feet east of Harrison avenue to 6 feet west of Fellows street. Trinidad and Aztec asphalt. Laid by Central Construction Company.	325	724	1916
Randall street (Roxbury).....	6 feet east of Fellows street to 1 foot west of Albany street. Trinidad and Aztec asphalt. Laid by Central Construction Company.	264	765	1916
Randall street (Roxbury).....	1 foot west of Albany street to Albany street. Mexican asphalt. Laid by Bermudez Company.	1	4	1918
Raven street (Dorchester).....	6 feet south of Crescent avenue to 444 feet south of Crescent avenue. Bitulithic. Laid by James Doherty.	438	1,264	1915
Redlands road (West Roxbury).....	Centre street to 54 feet north of Centre street. Topeka. Laid by Rowe Contracting Company.	54	277	1921

‡

Aug. 26, 1926.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Reedsdale street (Brighton).....	At Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	10	25	1917	Dec. 7, 1922.
Revere street (city proper).....	Charles street to 9 feet west of Charles street. Pine wood block. Laid by B. E. Grant Company.	9	22	1921	Nov. 19, 1926.
Richwood street (West Roxbury).....	Centre street to 41 feet west of Centre street. Topeka. Laid by Rowe Contracting Company.	41	92	1921	Aug. 26, 1926.
Richwood street (West Roxbury).....	41 feet west of Centre street to Montview street. Topeka. Laid by Central Construction Company.	1,196	2,688	1917-18	June 19, 1923.
Ridgewood street (Dorchester).....	Draper street to Toplift street. Bitulithic. Laid by James Doherty.....	1,063	3,075	1915	
Rill street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	29	1910	
Ripley road (Dorchester).....	Vassar street to Harvard street. Aztec asphalt. Laid by Central Construction Company.	673	1,946	1916	
Ritchie street (Roxbury).....	14 feet east of Columbus avenue to Columbus avenue. Asphalt concrete (macadam base). Laid by Simpson Brothers Corporation	14	20	1921	Aug. 9, 1926.
Ritchie street (Roxbury).....	Columbus avenue to 16 feet west of Columbus avenue. Asphalt concrete (macadam base). Laid by Simpson Brothers Corporation.	16	70	1921	Aug. 9, 1926.
River street (city proper).....	Bacon street to Mt. Vernon street. Acme asphalt. Laid by Warren Brothers Company.	564	1,220	1912	
River street (Hyde Park).....	250 feet north of Central avenue to Hyde Park avenue. Topeka (macadam base). Laid by Central Construction Company.	953	4,127	1921	Sept. 9, 1926.
River street (Hyde Park).....	Hyde Park avenue to bridge over Boston & Providence Railroad. Topeka (macadam base). Laid by Central Construction Company.	244	731	1921	Sept. 9, 1926.
Riverdale street (Brighton).....	At Western avenue. Topeka (macadam base). Laid by department forces,	9	15	1920	

Rochester street (city proper).....	8 feet east of Harrison avenue to 20 feet west of Albany street. Trinidad asphalt. Laid by Central Construction Company.	485	1,090	1914	
Rochester street (city proper).....	20 feet west of Albany street to 14 feet west of Albany street. Asphalt. Laid by The Bermudez Company.	6	13	1920	†
Rockview street (West Roxbury).....	At Green street. Topeka (macadam base). Laid by Central Construction Company.	7	20	1921	June 3, 1926.
Rogers street (South Boston).....	Dorchester street to 21 feet south of Dorchester street. Bitulithic. Laid by Warren Brothers Company.	17	21	1914	
Rogers street (South Boston).....	21 feet south of Dorchester street to 12 feet north of Preble street. Asphalt (cobble base). Laid by Rowe Contracting Company.	336	452	1921	†
Rose street (city proper).....	8 feet east of Harrison avenue to 13 feet west of Albany street. Mexican asphalt (macadam base). Laid by Central Construction Company.	483	1,073	1917	†
Rosedale street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	32	1913	
Roseland street (Dorchester).....	At Dorchester avenue. Pine wood block. Laid by Gore, Inc.....	8	28	1921	Nov. 16, 1926.
Rosemary street (West Roxbury).....	At South street. Aztec asphalt (macadam base). Laid by Bermudez Company.	3	11	1918	Sept. 28, 1923.
Rosewood street (Dorchester).....	Oakland street to Randolph road. Trinidad asphalt. Laid by John Kelly Company.	1,324	4,417	1916	
Roslin street (Dorchester).....	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	10	45	1918	Sept. 25, 1923.
Rowell street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	39	1911	
Roxbury street (Roxbury).....	Washington street to Guild row. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	164	870	1904	
Roxbury street (Roxbury).....	Shawmut avenue, across Kent street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	549	2,216	1904	
Rugby road (Dorchester).....	Oakland street to Randolph road. Mexican asphalt. Laid by Central Construction Company.	552	1,314	1917	July 28, 1922.

List of Streets Having a Smooth Pavement.— Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Ruggles street (Roxbury).....	Washington street to Shawmut avenue. Pine wood block. Laid by Boston Paving Company.	455	1,277	1913	
Ruggles street (Roxbury).....	7 feet west of Shawmut avenue to Cabot street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	1,048	3,062	1907	
Ruggles street (Roxbury).....	Each side of Columbus avenue. Bermudez asphalt. Laid by Boston Asphalt Company.	7	35	1906	
Ruggles street (Roxbury).....	Cabot street to Tremont street. Mack brick block. Laid by J. E. Burns & Co.	460	1,874	1909	
Rutland square (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	56	1906-07	
Rutland square (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.	15	61	1920	Sept. 18, 1925.
Rutland street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.	14	56	1920	Sept. 18, 1925.
Ruxton road (Dorchester).....	At Rugby road. Mexican asphalt. Laid by Central Construction Company.	6	15	1917	July 28, 1922.
Ryan street (city proper).....	Mystic street to Harrison avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	375	585	1896	
St. Alphonsus street (Roxbury).....	Each side of Conant street. Aztec asphalt (macadam base). Laid by Central Construction Company.	14	32	1919	Nov. 1, 1924.
St. Alphonsus street (Roxbury).....	9 feet north of Tremont street, across Smith street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	512	1,479	1905	
St. Andrew road (East Boston).....	At Wauppello road. Aztec asphalt. Laid by James Doherty.	8	27	1919	June 27, 1924.
St. Botolph street (city proper).....	9 feet east of West Newton street to West Newton street. Bitulithic. Laid by Central Construction Company.	9	36	1917	
St. Botolph street (city proper).....	West Newton street to 9 feet west of West Newton street. Bitulithic. Laid by Central Construction Company.	9	36	1917	

St. Botolph street (Roxbury)	Each side of Massachusetts avenue. Bitulithic. Laid by Warren Brothers Company.	8	32	1903
St. Cecilia street (Roxbury)	At Belvidere street. Bitulithic. Laid by Warren Brothers Company.	1	3	1902
St. Charles street (city proper)	At Chandler street. Acme asphalt (macadam base). Laid by Warren Brothers Company	3 {	8	1916
	Bessener brick block gutters. Laid by Warren Brothers Company		2	1916
St. Francis de Sales street (Roxbury) ..	Cabot street to Roxbury street. Bitulithic. Laid by James Doherty.	452	746	1914
St. Germain street (Roxbury)	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	2	10	1901
St. James avenue (city proper)	8 feet west of Clarendon street to Huntington avenue. Bitulithic. Laid by Boston Elevated Railway Company.	453	1,576	1914
St. James avenue (city proper)	At Huntington avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	.....	17	1901
St. James avenue (city proper)	At Huntington avenue. Bitulithic. Laid by James Doherty. ....	.....	590	1912
St. Joseph street (West Roxbury)	At South street. Bitulithic. Laid by Warren Brothers Company	2	5	1913
St. Lukes road (Brighton)	Brighton avenue to 10 feet south of Brighton avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	10	22	1917
St. Lukes road (Brighton)	24 feet north of Commonwealth avenue to Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	24	62	Dec. 7, 1922. May 21, 1923.
St. Paul street (Roxbury)	Falmouth street to Norway street. Pine wood block. Laid by United States Wood Preserving Company.	299	777	1909
St. Rose street (West Roxbury)	At South street. Aztec asphalt (macadam base). Laid by Bermudez Company.	7	22	Sept. 28, 1923.
St. Stephen street (Roxbury)	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	2	9	1901
St. William street (Dorchester)	Dorchester avenue to 8 feet east of Dorchester avenue. Pine wood block. Laid by William J. Barry.	8	26	Aug. 21, 1924.
St. William street (Dorchester)	8 feet east of Dorchester avenue to Auckland street. Trinidad asphalt. Laid by J. J. Sullivan.	317	923	1915

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Salcombe street (Dorchester).....	At Stoughton street. Topeka (macadam base). Laid by department forces.	10	31	1920	
Salem street (city proper).....	Endicott street to 6 feet south of Cross street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	172	328	1901	
Salem street (city proper).....	6 feet north of Cross street to 5 feet north of south side of Baldwin place. Sicilian rock asphalt. Laid by Boston Asphalt Company.	700	1,384	1901	
Salem street (city proper).....	5 feet north of south side of Baldwin place to 64 feet north of Baldwin place. Bitulithic. Laid by Warren Brothers Company.	74	150	1913	
Salem street (city proper).....	64 feet north of Baldwin place to 1 foot north of Prince street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	117	262	1901	
Saltation street (city proper).....	Hanover street to Commercial street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	340	253	1905	
Santuit street (Dorchester).....	Roseland street to Welles avenue. Topeka. Laid by city force.....	386	946	1917	
Saratoga street (East Boston).....	73 feet west of Chelsea street to Chelsea street. Aztec asphalt (macadam base). Laid by Bernudez Company.	73	778	1919	May 1, 1924.
Saratoga street (East Boston).....	Chelsea street to 120 feet west of Byron street. Aztec asphalt. Laid by Bernudez Company.	2,881	1,105	1919	May 1, 1924.
Saratoga street (East Boston).....	120 feet west of Byron street to Bennington street. Standard asphalt. Laid by Bernudez Company.	2,994	14,535	1918	May 1, 1924.
Saratoga street (East Boston).....	Bridge over Boston, Revere Beach & Lynn Railroad. Mack brick.....	89	321	1913	
Saratoga street (East Boston).....	At Wauppello road. Aztec asphalt (macadam base). Laid by James Doherty.....	.....	45	1919	June 27, 1924.
Saratoga street (East Boston).....	West side bridge over Belle Isle inlet to Winthrop line. Metropolitan brick block. Laid by Lawler Brothers.	100	378	1914	
Sarsfield street (Roxbury).....	At Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Com- pany.	18	40	1906-07	

Saunders street (Brighton)	At North Beacon street. Bitulithic. Laid by Warren Brothers Company...	10	31	1918	Dec. 24, 1923.
Saunders street (Brighton)	At Cambridge street. Bitulithic. Laid by Warren Brothers Company.	12	37	1919	Sept. 4, 1924.
Saville street (West Roxbury)	Stratford street to Park street. Mexican asphalt. Laid by Central Construction Company.	314	740	1917	Sept. 30, 1922.
Savin Hill avenue (Dorchester)	At Pleasant street. Topeka. Laid by Francis J. Burke. ....	.....	26	1920	Dec. 18, 1925.
Sawyer avenue (Dorchester)	At Pleasant street. Topeka. Laid by Francis J. Burke.	12	51	1920	Dec. 18, 1925.
Saybrook street (Brighton)	At Market street. Simasco. Laid by Simpson Brothers Corporation.	10	30	1921	June 20, 1926.
Schuller street (Roxbury)	At Heath street. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	25	1910	
School street (Roxbury)	54 feet east of Amory street to Amory street. Mexican asphalt. Laid by Central Construction Company.	54	250	1919	Dec. 6, 1924.
School street (Dorchester)	At Washington street. Pine wood block. Laid by William J. Barry.	10	28	1913	
Sears street (city proper)	At India street. Mexican asphalt. Laid by Central Construction Company.	1	6	1916	‡
Seaver street (Roxbury)	Walnut avenue to Blue Hill avenue. Acme asphalt (macadam base). Laid by Warren Brothers Company.	4,093	15,760	1917	Sept. 17, 1922.
Seaver street (Roxbury and Dorchester)	Blue Hill Avenue to Columbia road. Asphalt concrete (macadam base). Laid by Simpson Brothers Corporation.	651	1,916	1921	Aug. 13, 1926.
Seaverns avenue (West Roxbury)	At Centre street. Bitulithic. Laid by Warren Brothers Company.	4	28	1913	
Sedgwick street (West Roxbury)	At South street. Bitulithic. Laid by Warren Brothers Company.	2	6	1913	
Selwyn street (West Roxbury)	423 feet north of Ardale street to 10 feet south of Farquhar street. Texro asphalt. Laid by McGuire & McGourty.	1,200	3,559	1919	Aug. 20, 1924.
Selwyn street (West Roxbury)	10 feet south of Farquhar street to Farquhar street. Topeka. Laid by Martino DeMatteo.	10	30	1920	Nov. 11, 1925.
Seneca street (city proper)	4 feet east of Harrison avenue to 13 feet west of Albany street. Mack brick block. Laid by Paving Service.	496	817	1910	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Shawmut avenue (city proper).....	132 feet south of Castle street, across Cherry street. Trinidad asphalt. Laid by Central Construction Company.	327	956	1915	
Shawmut street (city proper).....	At Broadway. Pine wood block. Laid by Coleman Brothers.	9	27	1913	
Sheffield road (West Roxbury).....	At Selwyn street. Texro asphalt. Laid by McGuire & McGourty.....	7	22	1919	Aug. 8, 1924.
Shelby street (East Boston).....	At Saratoga street. Aztec asphalt (macadam base). Laid by Bernudez Company.	.....	1	1919	May 1, 1924.
Sherburn street (Roxbury).....	At Commonwealth avenue. Pine wood block. Laid by Clark & Gore.....	23	104	1915	
Sheridan street (Roxbury).....	At Centre street. Topeka (macadam base). Laid by Central Construction Company.	9	30	1920	Dec. 22, 1925.
Sidlaw road (Brighton).....	At Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	60	263	1918	May 21, 1923.
Silver street (South Boston).....	From A street to bridge over New England Railroad. Bitulithic. Laid by Warren Brothers Company.	332	490	1903	
Silver street (South Boston).....	Bridge over New England Railroad. Pine wood block. Laid by Central Construction Company.	64	92	1918	†
Silver street (South Boston).....	50 feet west of B street to 10 feet west of B street. Bitulithic. Laid by Warren Brothers Company.	40	59	1903	
Silver street (South Boston).....	B street to C street. Sicilian rock asphalt. Laid by Jones & Meehan.....	512	740	1901	
Silver street (South Boston).....	C street to D street. Sicilian rock asphalt. Laid by Jones & Meehan.....	510	737	1901	
Silver street (South Boston).....	225 feet west of E street to E street. Bitulithic. Laid by Warren Brothers Company.	225	325	1903	
Silver street (South Boston).....	5 feet west of Dorchester street to Dorchester street. Bitulithic. Laid by Samuel J. Tomasello.	5	8	1921	Aug. 31, 1926.

Silver street (South Boston).....	Dorchester street to 4 feet east of Dorchester street. Bitulithic. Laid by Samuel J. Tomasello.	4	6	1921	Aug. 31, 1926.
Simmons street (Roxbury).....	Vernon street to Linden Park street. Mack brick block. Laid by John E. Burns & Co.	645	1,434	1909	
Smith street (Roxbury).....	Parker street to 6 feet north of Phillips street. Aztec asphalt (macadam base). Laid by Bernudez Company.	607	1,755	1919	Oct. 24, 1924.
Smith street (Roxbury).....	6 feet north of Phillips street to St. Alphonsus street. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	576	1,664	1917	†
Smith street (Roxbury).....	St. Alphonsus street to Huntington avenue. Aztec asphalt (macadam base). Laid by Bernudez Company.	582	1,690	1919	Nov. 8, 1924.
South street (West Roxbury).....	Centre street to 12 feet north of Jamaica street. Bitulithic. Laid by Warren Brothers Company. Pine wood block. (Brows to street car rails.) Laid by Warren Brothers Company.	1,295 {	4,417 290	1913 1913	
South street (West Roxbury).....	12 feet north of Jamaica street to north side Keyes street (east side). Bitulithic. Laid by Warren Brothers Company. Pine wood block. (Brows to street car rails.) Laid by Warren Brothers Company.	.....	260 10	1913 1913	
South street (West Roxbury).....	North side of Keyes street to 25 feet north of Boynton street (east side). Aztec asphalt (macadam base). Laid by Bernudez Company.	.....	267	1918	Sept. 28, 1923.
South street (West Roxbury).....	25 feet north of Boynton street to north side of Arborway. Aztec asphalt (macadam base). Laid by Bernudez Company.	1,331	3,520	1918	Sept. 28, 1923.
South street (West Roxbury).....	78 feet north of tangent at north side Archdale road (bend) to tangent at northside Archdale road (bend). Topeka (macadam base). Laid by Martino DeMatteo.	78	228	1921	May 26, 1926.
South street (West Roxbury).....	Tangent north side Archdale road to tangent south side Archdale road. Topeka. Laid by Martino DeMatteo.	103	392	1921	May 26, 1926.
South street (West Roxbury).....	Tangent south side Archdale road to 11 feet south of tangent south side of Archdale road. Topeka (macadam base). Laid by Martino DeMatteo.	11	40	1921	May 26, 1926.
South street (West Roxbury).....	120 feet west of Guernsey street to Centre street. Topeka. Laid by Rowe Contracting Company. Asphalt (macadam base). Laid by The Bernudez Company.	11 295	54 1,113	1920 1920	Aug. 26, 1926. Dec. 22, 1925.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
South street (Brighton).....	Chestnut Hill avenue to 13 feet east of Commonwealth avenue. Aztec asphalt. Laid by Coleman Brothers.	600	1,504	1917	Nov. 17, 1922.
South street (Brighton).....	13 feet east of Commonwealth avenue to Commonwealth avenue. Mexican asphalt (Telford macadam base). Laid by Central Construction Company.	13	54	1918	May 21, 1923.
Southern avenue (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	42	1913	
Southern avenue (Dorchester).....	Each side of Talbot avenue. Mack brick block. Laid by James Doherty..	30	193	1911	
South Huntington avenue (West Roxbury.).....	At Centre street, east side. Topeka (macadam base). Laid by Central Construction Company.	15	75	1920	Dec. 22, 1925.
	West side. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	.....	68	1921	Unfinished.
South Margin street (city proper).....	2 feet east of Norman street to 7 feet east of Staniford street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	187	380	1905	
Southwick street (Dorchester).....	Nononset avenue to Freeport street. Mexican asphalt. Laid by Central Construction Company.	350	1,022	1918	Mar. 29, 1923.
Sparhawk street (Brighton).....	At Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	17	58	1919	Sept. 4, 1924.
Sparhawk street (Brighton).....	58 feet east of Market street to Market street. Simasco. Laid by Simpson Brothers Corporation.	58	137	1921	June 20, 1926.
Spaulding street (West Roxbury).....	At South street. Aztec asphalt (macadam base). Laid by Bermudez Company.	3	11	1918	Sept. 28, 1923.
Spear place (city proper).....	At Pleasant street. Pine wood block. Laid by Coleman Brothers.....	10	9	1913	
Spencer street (Dorchester).....	At Talbot avenue. Mack brick block. Laid by James Doherty.....	12	61	1911	
Spofford road (Brighton).....	At Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	20	47	1917	May 21, 1923.

			3	7	1917	†
Spring street (city proper).....	Allen street to 3 feet north of Allen street. Mexican asphalt. Laid by Central Construction Company.					
Spring street (city proper).....	3 feet north of Allen street to Poplar street. Bitulithic. Laid by Warren Brothers Company.	202	400		1913	
Spring street (city proper).....	Poplar street to Chambers street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	212	425		1895	
Spring street (city proper).....	Chambers street to Leverett street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	216	444		1895	
Spring street (West Roxbury).....	Centre street to 42 feet west of Centre street. Topeka. Laid by Rowe Contracting Company.	42	539		1921	Aug. 26, 1926.
Spring street (West Roxbury).....	42 feet west of Centre street to 162 feet west of Centre street. Topeka (macadam base). Laid by Rowe Contracting Company.	120	532		1921	Aug. 26, 1926.
Spring Park Avenue (West Roxbury)...	At Centre street. Asphalt concrete. Laid by B. E. Grant Company.	9	28		1921	Unfinished.
Spruce street (city proper).....	Beacon street to 11 feet north of Beacon street. Topeka (macadam base). Laid by Bernard E. Grant.	11	14		1917	Nov. 15, 1922.
Stanton street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty	9	54		1914	
State street (city proper).....	Washington street to east side of Old State House. Pine wood block. Laid by James Doherty	115	564		1908	
	Pine wood block. Laid by Bernard E. Grant	11	32		1916	
Station street (Roxbury).....	7 feet south of Parker street to Parker street. Aztec asphalt. Laid by Hernandez Company.	7	23		1919	Oct. 25, 1924.
Station street (Roxbury).....	Columbus avenue to 7 feet south of Parker street. Bitulithic. Laid by John F. Beatty.	611	1,764		1914	
Sterling street (Roxbury).....	Washington street to Shawmut avenue. Topeka. Laid by Central Construction Company.	497	1,436		1919	June 23, 1924.
Sterling street (Roxbury).....	Shawmut avenue to Westminster street. Topeka. Laid by Central Construction Company.	431	1,630		1919	June 23, 1924.
Sterling street (Roxbury).....	Westminster street to Warwick street. Topeka. Laid by Central Construction Company.	369	1,398		1919	June 23, 1924.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Sterling street (Roxbury).....	Warwick street to Cabot street. Topeka. Laid by Central Construction Company.	165	554	1919	June 23, 1924.
Sterling street (Roxbury).....	Cabot street to Tremont street. Topeka. Laid by Central Construction Company.	257	740	1919	June 23, 1924.
Stevens street (city proper).....	Lincoln place, toward Shawmut avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	16	22	1897	
Stillman street (city proper).....	Endicott street to North Margin street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	135	368	1892	
Stillman street (city proper).....	North Margin street intersection. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	30	70	1895	
Stillman street (city proper).....	Salem street to 8 feet west of Salem street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	8	7	1901	
Stillman street (city proper).....	2 feet east of North Margin street to North Margin street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	2	2	1895	
Stoddard street (city proper).....	6 feet north of Howard street to 8 feet south of Court street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	121	135	1892	
Stoughton street (city proper).....	At Albany street. Pine wood block. Laid by Bernard E. Grant.	12	45	1917	Jan. 19, 1923.
Stoughton street (Dorchester).....	103 feet east of Columbia road to 14 feet west of Pleasant street. Topeka (macadam base). Laid by department forces.	1,423	3,511	1920	
Stoughton street (Dorchester).....	14 feet west of Pleasant street to Pleasant street. Topeka. Laid by department forces.	14	73	1920	
Strathmore road (Brighton).....	At Commonwealth avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	45	150	1918	May 21, 1923.

Stuart street (city proper).....	East side of Trinity place to west side of Trinity place. Asphalt. Laid by Rose Contracting Company.	.....	31	1921	†
Stuart street (city proper).....	Bitulithic. Laid by James Doherty.....	32	111	1912	
Stuart street (city proper).....	At Broadway. Pine wood blocks. Laid by Coleman Brothers, Inc.....	.....	30	1913	
Stuart street (city proper).....	Near southwest corner of Berkeley street. Concrete.....	.....	35		
Stuart street (city proper).....	Clarendon street to Trinity place. Bitulithic. Laid by Warren Brothers Company.	268	1,200	1920	Oct. 25, 1925.
Stuart street (city proper).....	At Dartmouth street and at Trinity place. Bitulithic. Laid by James Doherty.	6	26	1912	
Summer street (city proper).....	At Washington street. Mack brick block. Laid by Northern Construction Company.	.....	38	1915	
Summer street (city proper).....	Washington street to west side of South street. Pine wood block. Laid by Northern Construction Company.	1,229	5,668	1915	
Summer street (Dorchester).....	At Stoughton street. Topeka (macadam base). Laid by department forces.	3	13	1920	
Summer street (East Boston).....	Bridge over Boston & Albany Railroad. Limmer rock asphalt. Laid by W. A. Murtfeldt Company.	38	187	1908	
Sun Court street (city proper).....	7 feet north of North street to Moon street. Trinidad asphalt (cobble base). Laid by Barber Asphalt Paving Company.	144	211	1891	
Sunnyside street (Roxbury).....	At Centre street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	12	38	1921	Unfinished.
Surrey street (Brighton).....	Market street to 81 feet west of Market street. Simasco. Laid by Simpson Brothers Corporation.	81	189	1921	June 20, 1926.
Sussex street (Roxbury).....	Hammond street to Warwick street. Topeka. Laid by Central Construction Company.	285	546	1919	June 16, 1924.
Sutherland Road (Brighton).....	32 feet north of Beacon street to Beacon street. Asphalt concrete. Laid by John J. Lane.	32	153	1921	Oct. 14, 1926.
Swift street (East Boston).....	At Saratoga street. Aztec asphalt. Laid by Bernudez Company.....	8	36	1919	May 1, 1924.
Taft street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	43	108	1920	Sept. 22, 1925.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Talbot avenue (Dorchester).....	At Lithgow street. Mexican asphalt. Laid by Central Construction Com- pany.	.....	30	1917	May 30, 1922.
Talbot avenue (Dorchester).....	66 feet east of Washington street to Washington street. Pine wood block. Laid by William J. Barry.	66	571	1913	
Talbot avenue (Dorchester).....	215 feet west of Norfolk street to 58 feet east of Blue Hill avenue. Mack brick block. Laid by James Doherty.	4,300	21,325	1911	
Tamworth street (city proper).....	Boylston street to 9 feet south of Boylston street. Pine wood block. Laid by Warren Brothers Company.	9	14	1917	Aug. 15, 1922.
Tamworth street (city proper).....	7 feet north of La Grange street to La Grange street. Asphalt. Laid by Rowe Contracting Company.	7	12	1921	†
Taylor street (city proper).....	Dwight street to Milford street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	184	257	1896	
Tibroch street (Dorchester).....	Bowdoin street to Levant street. Aztec asphalt. Laid by McGuire & McCourtly.	211	616	1919	Nov. 19, 1924.
Temple place (city proper).....	Washington street to 95 feet west of Washington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	95	318	1906	
Temple place (city proper).....	95 feet west of Washington street to 22 feet east of Tremont street. Trinidad land asphalt. Laid by United States Paving Company.	386	1,229	1900	
Temple place (city proper).....	22 feet east of Tremont street to Tremont street. Pine wood block. Laid by Coleman Brothers.	22	74	1915	
Temple street (West Roxbury).....	Spring street to 2 feet north of Spring street. Topeka (macadam base). Laid by Rowe Contracting Company.	2	12	1921	Aug. 26, 1926.
Temple street (West Roxbury).....	2 feet north of Spring street to Ivory street. Mexican asphalt. Laid by Central Construction company.	1,089	3,169	1917	June 25, 1922.

Templeton street (Dorchester).....	1 foot east of Florida street to 9 feet west of Florida street. Topeka (macadam base). Laid by city forces.....	44	125	1919	
Terry street (Roxbury).....	At Columbus avenue. Bermudez asphalt. Laid by Boston Asphalt Company.	9	28	1906	
Tetlow street (Roxbury).....	At Worthington street. Trinidad asphalt. Laid by Central Construction Company.	4	14	1915	
Thacher street (city proper).....	12 feet east of Washington Street North to 5 feet east of Endicott street. Mexican asphalt. Laid by Central Construction Company.	187	512	1917	†
Thacher street (city proper).....	5 feet east of Endicott street to Endicott street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	5	15	1899	
Thatcher street (Hyde Park).....	75 feet east of Greenwood avenue to 55 feet east of Greenwood avenue. Topeka (macadam base). Laid by Martino DeMatteo.	20	58	1921	May 12, 1926.
Thatcher street (Hyde Park).....	55 feet east of Greenwood avenue to Greenwood avenue. Topeka. Laid by Martino DeMatteo.	55	252	1921	May 12, 1926.
Theodore street (Dorchester).....	10 feet northeast of Morton street, across Middleton street. Mexican asphalt. Laid by Central Construction Company.	612	1,762	1917	July 26, 1922.
Thetford avenue (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	9	44	1914	
Thomas park (South Boston).....	Around Telegraph Hill. Bitulithic crushed stone base. Laid by Warren Brothers Company.	2,056	6,980	1905	
Thomas street (West Roxbury).....	At Centre street. Bitulithic. Laid by Warren Brothers Company.....	2	7	1913	
Thorndike street (Brighton).....	Commonwealth avenue to Brookline line. Asphalt concrete. Laid by Charles M. Callahan.	145	555	1921	June 22, 1926.
Thornley street (Dorchester).....	At Pleasant street. Topeka. Laid by Francis J. Burke.....	11	38	1920	Dec. 18, 1925.
Ticknor street (South Boston).....	Columbia road to Marine road. Mexican asphalt. Laid by Central Construction Company.	368	1,033	1919	April 30, 1924.
Tileston street (city proper).....	9 feet north of Hanover street, across Unity street. Laid by Barber Asphalt Paving Company.	403	514	1905	
Tileston street (city proper).....	Unity street to 6 feet south of Salem street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	157	119	1895	

List of Streets Having a Smooth Pavement.— Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Tonawanda street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces.	9	46	1920	
Topliff street (Dorchester).....	At Bowdoin street. Aztec asphalt (macadam base). Laid by Bermudez Company.	15	44	1919	May 9, 1924.
Topliff street (Dorchester).....	At Levant street. Aztec asphalt (macadam base). Laid by McGuire & McGourty.	.....	45	1919	Nov. 24, 1924.
Topliff street (Dorchester).....	At Geneva avenue. Topeka (macadam base). Laid by department forces.	2	10	1920	
Torrey street (Dorchester).....	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	10	33	1918	Sept. 25, 1923.
Tovar street (Dorchester).....	Bowdoin street to Cameron street. Aztec asphalt. Laid by McGuire & McGourty.	200	576	1919	Nov. 17, 1924.
Treadway street (Dorchester).....	Savin Hill avenue to 67 feet north of Doris street. Aztec asphalt. Laid by Central Construction Company.	337	1,261	1916	
Tremlett street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	32	1913	
Tremont street (city proper).....	Scollay square to 19 feet north of Boylston street (except next two items). Pine wood block. Laid by Coleman Brothers.	2,834	9,557	1915	
Tremont street (city proper).....	29 feet north of Winter street, across Temple place (west side). Pine wood block. Laid by United States Wood Preserving Company.	.....	455	1900	
Tremont street (city proper).....	(West side.) Park street to Boylston street. Pine wood block. Laid by James Doherty.	.....	1,958	1920	Oct. 16, 1925.
Tremont street (city proper).....	19 feet north of Boylston street to 8 feet north of Elliot street. Pine wood block. Laid by Bernard E. Grant.	453	2,046	1917	Nov. 15, 1922.
Tremont street (city proper).....	8 feet south of Elliot street to 21 feet south of the north side of Common street. Pine wood block. Laid by Bernard E. Grant.	424	1,884	1917	Nov. 15, 1922.

Tremont street (city proper)	Bridge over Boston & Albany Railroad. Standard asphalt. Laid by Boston & Albany Railroad Company	1912 1912			
Tremont street (city proper)	Portland stone brick. Laid by Boston & Albany Railroad Company	190 128	65 {		
Tremont street (city proper)	See Arlington square.				
Tremont street (city proper)	New York, New Haven & Hartford Railroad Bridge to 2 feet north of Dover street. Topeka. Laid by Rowe Contracting Company.	1919	831	4,088	May 31, 1924.
Tremont street (city proper)	2 feet north of Dover street to 9 feet south of north side of Northampton street. (Not including next item.) Asphalt. Laid by B. E. Grant Company.	1920	3,726	22,204	Sept. 18, 1925.
Tremont street (city proper)	(West side.) North side of Waltham street to 20 feet south of north side of Clarendon street. Unionite. Laid by B. E. Grant Company.	1920	110	423	Sept. 18, 1925.
Tremont street (Roxbury)	15 feet east of St. Alphonsus street to 7 feet west of Phillips street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	1902	569	1,768	
Tremont street (Brighton)	Pine wood block in track maintained by Boston Elevated Railway Company.	1921	.....	954	
Tremont street (Brighton)	(West side.) At Washington street. Bitulithic (macadam base). Laid by Warren Brothers Company.	1920	.....	22	July 8, 1925.
Tremont street (Brighton)	(West side.) Washington street to 72 feet south of Washington street. Asphalt (macadam base). Laid by city forces.	1921	72	260	
Trent street (Dorchester)	Clarkson street to 6 feet north of Coleman street. Trinidad asphalt. Laid by William J. Rafferty & Co.	1915	222	498	
Trescott street (Dorchester)	Pleasant street to 16 feet west of Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	1920	16	48	Sept. 22, 1925.
Trescott street (Dorchester)	16 feet west of Pleasant street to 7 feet east of Bakersfield street. Bitulithic. Laid by James Doherty.	1914	383	1,107	
Trinity place (city proper)	Huntington avenue to St. James avenue. Bitulithic. Laid by James Doherty.	1912	124	346	
Trinity place (city proper)	St. James avenue to Stuart street. Bitulithic. Laid by James Doherty.	1912	337	1,317	
Trinity place (city proper)	Bitulithic. Laid by Warren Brothers Company	1920	.....	34	Oct. 25, 1925.
Trinity place (city proper)	5 feet south of Stuart street to 5 feet north of Stanhope street. Asphalt. Laid by Rowe Contracting Company.	1921	249	719	†

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Trull street (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	29	1910	
Tuckerman street (South Boston).....	Dorchester street to Middle street. Aztec asphalt. Laid by Central Construction Company.	367	764	1916	
Tudor street (South Boston).....	C street to D street. Sicilian rock asphalt. Laid by Jones & Meehan.....	506	731	1901	
Tudor street (South Boston).....	At Dorchester street. Bitulithic. Laid by Samuel J. Tomasello.....	4	6	1921	Aug. 31, 1926.
Tufts street (city proper).....	8 feet west of South street to 7 feet east of Lincoln street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	212	473	1901	
Tufts street (city proper).....	8 feet west of Lincoln street to 13 feet east of Kingston street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	239	527	1901	
Tufts street (city proper).....	13 feet east of Kingston street to Kingston street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	13	33	1910	
Tufts street (Charlestown).....	Bunker Hill street to 141 feet north of Bunker Hill street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	141	415	1897	
Turner street (Brighton).....	Washington street to 2 feet north of Washington street. Bitulithic. Laid by Warren Brothers Company.	2	6	1919	July 8, 1925.
Turner street (Brighton).....	10 feet north of Washington street to Faneuil street. Aztec asphalt. Laid by Coleman Brothers.	1,252	2,918	1917	Sept. 17, 1922.
Tyler street (city proper).....	6 feet south of Beach street to 8 feet north of Kneeland street. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	306	815	1917	†
Tyler street (city proper).....	Kneeland street to Harvard street. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	319	850	1917	†
Tyler street (city proper).....	Harvard street to Oak street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	518	1,381	1901	

Tyler street (city proper).....	7 feet south of Oak street to 6 feet north of Curve street. (crushed stone base). Laid by Central Construction Company.....	428	1,152	1917	‡
Union avenue (West Roxbury).....	At Green street. Topeka. Laid by Central Construction Company.....	6	18	1919	Dec. 6, 1924.
Union park (city proper).....	15 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	15	60	1920	Sept. 18, 1925.
Union park (city proper).....	Tremont street to 15 feet west of Tremont street. Asphalt. Laid by B. E. Grant Company.	15	62	1920	Sept. 18, 1925.
Union park (city proper).....	15 feet west of Tremont street to Montgomery street. Asphalt (macadam base). Laid by B. E. Grant Company.	87	326	1920	Sept. 18, 1925.
Union park street (city proper).....	Washington street to Harrison avenue. Acme asphalt. Laid by the Bermudez Company.	461	2,404	1920	‡
Unity street (city proper).....	Charter street to Tileston street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	330	500	1897	
Upham avenue (Dorchester).....	At Wilbur street. Topeka (macadam base). Laid by Central Construction Company.	.....	32	1920	Oct. 25, 1925.
Upham avenue (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Company.	10	30	1911	
Upland avenue (Dorchester).....	Park street to Melville avenue. Aztec asphalt. Laid by Central Construction Company.	748	2,509	1916	
Upton street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	16	50	1920	Sept. 18, 1925.
Utica street (city proper).....	At Tufts street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	3	5	1901	
Vernon street (Roxbury).....	Tremont street to Cabot street. Mack brick block. Laid by J. E. Burns & Co.	798	2,307	1909	
Vernon street (Roxbury).....	80 feet east of Cabot street to 7 feet east of Auburn street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	694	1,788	1907	
Vernon street (Roxbury).....	Shawmut avenue to Washington street. Pine wood block. Laid by Boston Paving Company.	281	814	1913	
Victoria street (Dorchester).....	At Dorchester avenue. Pine wood block. Laid by William J. Barry.....	10	33	1919	Aug. 21, 1924.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Victoria street (Dorchester).....	At Pleasant street, Topeka (macadam base). Laid by Central Construction Company.	17	52	1902	Sept. 22, 1925.
Victory road (Dorchester).....	At Neponset avenue, Topeka (macadam base). Laid by city forces.....	7	23	1918	
Vine street (Roxbury).....	At Dudley street, Mack brick block. Laid by James Doherty.....	7	20	1910	
Vine street (Charlestown).....	Bunker Hill street, across Moulton street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	165	670	1897	
Vineland street (Brighton).....	At Market street, Simasco. Laid by Simpson Brothers Company.....	21	40	1921	June 20, 1926.
Vinson street (Dorchester).....	At Geneva avenue, Topeka (macadam base). Laid by department forces,	1	6	1920	
Wachusett street (West Roxbury).....	Walk Hill street to 24 feet east of Patten street. Topeka. Laid by John Kelly Company.	191	524	1919	Dec. 15, 1924.
Wachusett street (West Roxbury).....	24 feet east of Patten street to 23 feet west of Patten street. Topeka. Laid by John Kelly Company.	71	194	1919	Dec. 15, 1924.
Wachusett street (West Roxbury).....	23 feet west of Patten street to Eldridge road. Topeka. Laid by John Kelly Company.	670	1,967	1919	Dec. 15, 1924.
Walden street (Roxbury).....	At Heath street, Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	18	1910	
Walden street (Roxbury).....	At Centre street, Asphalt concrete (macadam base). Laid by B. E. Grant Company.	13	40	1921	Unfinished.
Waldo terrace (Brighton).....	Washington street to 1 foot north of Washington street. Bitulithic. Laid by Warren Brothers Company.	1	2	1913	
Waldo terrace (Brighton).....	1 foot north of Washington street to Henshaw street. Aztec asphalt. Laid by Coleman Brothers.	291	406	1917	Oct. 10, 1922.
Wales street (Dorchester).....	At Talbot avenue, Mack brick block. Laid by James Doherty.....	15	82	1911	

Walk Hill street (Dorchester).....	West side Fottler road to Blue Hill avenue. Mexican asphalt (macadam base). Laid by Martino DeMatteo.	710	3,236	1919	June 28, 1924.
Wallingford road (Brighton).....	At Melton road. Asphalt concrete (macadam base). Laid by Charles M. Callahan.	.....	231	1921	Sept. 15, 1926.
Walnut avenue (Roxbury and West Roxbury).....	20 feet north of Columbus avenue to 13 feet south of Columbus avenue. Acme asphalt (macadam base). Laid by Warren Brothers Company.	68	214	1917	Sept. 17, 1922.
Walnut street (city proper).....	Beacon street to 12 feet north of Beacon street. Topeka (macadam base). Laid by Bernard E. Grant.	12	21	1917	Nov. 15, 1922.
Walpole street (Roxbury).....	At Columbus avenue. Bernudez asphalt. Laid by Boston Asphalt Company.	18	46	1906-07	
Waltham street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	18	69	1920	Sept. 18, 1925.
Walton street (Dorchester).....	At Washington street. Topeka (macadam base). Laid by Warren Brothers Company.	10	30	1918	Sept. 25, 1923.
Warren avenue (city proper).....	Berkeley street to 4 feet west of Berkeley street. Bitulithic. Laid by Warren Brothers Company.	4	25	1906	
Warren avenue (city proper).....	4 feet west of Berkeley street to 4 feet east of Pembroke street. Pine wood block. Laid by Boston Paving Company.	2,046	12,217	1913	
Warren street (Roxbury).....	At Washington street. Pine wood block. Laid by James Doherty.....	10	73	1911	
Warren street (Roxbury).....	At Dudley street. Pine wood block. Laid by James Doherty.....	23	216	1912	
Warren street (Charlestown).....	Winthrop street, across Soley street. Mexican asphalt. Laid by Central Construction Company.	128	302	1917	
Warren street (Brighton).....	Cambridge street to 176 feet east of Cambridge street. Bitulithic (macadam base). Laid by Warren Brothers Company.	176	1,245	1919	Sept. 4, 1924.
Warrenton street (city proper).....	8 feet south of Eliot street to 392 feet south of Eliot street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	384	1,045	1891	
Warrenton street (city proper).....	392 feet south of Eliot street to 10 feet north of Tremont street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	268	628	1884	
Warrenton street (city proper).....	13 feet south of Shawmut avenue to Washington street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	464	928	1891	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Warwick street (Roxbury).....	Hammond street to Ruggles street. Topeka. Laid by Central Construction Company.	1,369	3,961	1919	June 24, 1924.
Washington street (Charlestown).....	At Harvard street. Aztec asphalt (macadam base). Laid by Bermudez Company.	8	18	1918	June 8, 1923.
Washington Street North (Charlestown).	Bridge over Boston & Maine Railroad, Fitchburg Division. Trinidad asphalt. Laid by Simpson Brothers Corporation.	61	543	1899	
Washington street (city proper).....	8 feet south of Cornhill to 78 feet south of Court avenue. Pinewood block. Laid by James Doherty.	509	1,475	1908	
Washington street (city proper).....	78 feet south of Court avenue to 5 feet south of Milk street. Black gum wood block. Laid by United States Wood Preserving Company.. Pine wood block. Laid by Bernard E. Grant.	538 {	218 1,642	1907 1917	Nov. 4, 1922.
Washington street (city proper).....	5 feet south of Milk street to 57 feet north of Essex street. Black gum wood block. Laid by United States Wood Preserving Company.. Pine wood block. Laid by Bernard E. Grant.....	1,923 {	1,341 6,440	1906 1917	Nov. 4, 1922.
Washington street (city proper).....	57 feet north of Essex street to 54 feet south of Boylston street. Pine wood block. Laid by Bernard E. Grant.	213	360	1917	Nov. 4, 1922.
Washington street (city proper).....	54 feet south of Boylston street to 8 feet north of Beach street. Pine wood block. Laid by Bernard E. Grant.	132	501	1917	Nov. 4, 1922.
Washington street (city proper).....	8 feet north of Beach street to Eliot street. Pine wood block. Laid by James Doherty.	246	860	1920	Dec. 3, 1925.
Washington street (city proper).....	At Pleasant street. Pine wood block. Laid by Coleman Brothers.....	.....	20	1913	
Washington street (city proper).....	Bridge over Boston & Albany Railroad. Metropolitan brick. Laid by W. A. Mutfeldt Company.	60	216	1908	
Washington street (Roxbury).....	Williams street to 27 feet north of Marvin street. Pine wood block. Laid by James Doherty.	1,026	4,779	1911	

Washington street (Roxbury).....	27 feet north of Marvin street, across Zeigler street (west side). Trinidad asphalt. Laid by Barber Asphalt Paving Company.	Trinidad	210	1904
Washington street (Roxbury).....	Zeigler street to 20 feet north of Dudley street. Pine wood block. Laid by James Doherty.	186	745	1911
Washington street (Roxbury).....	20 feet north of Dudley street to Dudley street. Pine wood block. Laid by James Doherty.	20	105	1912
Washington street (Roxbury).....	Dudley street to 130 feet south of Dudley street. Pine wood block. Laid by James Doherty.	130	930	1912
Washington street (West Roxbury).....	La Grange street southerly. Topeka (macadam base). East roadway. Maintained by Massachusetts Highway Commission. West roadway. Maintained by Massachusetts Highway Commission.	4,559	9,624 5,491	1916 1916
Washington street (West Roxbury).....	29 feet south of Grove street to 529 feet south of Grove street (east roadway). Concrete road. Maintained by Massachusetts Highway Commission.	500	1,055	1916
Washington street (Roxbury and Dorchester).....	60 feet east of Blue Hill avenue to 116 feet south of Fenelon street. Pine wood block. Laid by William J. Barry.	2,143	9,323	1912-13
Washington street (Dorchester).....	116 feet south of Fenelon street to 3 feet south of Eldon street. Metropolitan brick block. Laid by city forces.	187	766	1921
Washington street (Dorchester).....	Pine wood block. Laid by William J. Barry.	2	6	1912
Washington street (Dorchester).....	3 feet south of Eldon street to 42 feet south of Bowdoin street. Pine wood block. Laid by William J. Barry.	1,864	8,687	1912
Washington street (Dorchester).....	42 feet south of Bowdoin street to 55 feet south of Talbot avenue. Pine wood block. Laid by William J. Barry.	3,440	16,402	1913
Washington street (Dorchester).....	55 feet south of Talbot avenue to north side of Ashmont street. Topeka (macadam base). Laid by Warren Brothers Company.	1,655	5,042	1918
Washington street (Dorchester).....	North side of Ashmont street to 85 feet north of Armandine street (west side). Topeka (macadam base). Laid by Warren Brothers Company.	.....	314	1918
Washington street (Dorchester).....	85 feet north of Armandine street to 12 feet south of Armandine street. Topeka (macadam base). Laid by Warren Brothers Company.	123	325	1918
Washington street (Brighton).....	Cambridge street to 118 feet west of Chestnut Hill avenue. Bitulithic. Laid by Warren Brothers Company.	.....	5,007	1913
Washington street (Brighton).....	Pine wood block. (Brows to street car rails.) Laid by Warren Brothers Company.	1,020	217	1913

Sept. 25, 1923.

Sept. 25, 1923.

Sept. 25, 1923.

List of Streets Having a Smooth Pavement.—Continued

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Washington street (Brighton).....	118 feet west of Chestnut Hill avenue to 22 feet east of Oakland street. Bitu- lithic (macadam base). Laid by Warren Brothers Company.	1,022	3,914	1919-20	July 8, 1925.
Washington street (Brighton) (north side).	22 feet east of Oakland street to 33 feet west of Lake street. Bitulithic (macadam base). Laid by Warren Brothers Company.	.....	1,529	1920	July 8, 1925.
Washington street (Brighton).....	33 feet west of Lake street, across Nonantum street. Bitulithic (macadam base). Laid by Warren Brothers Company.	2,191	8,161	1919-20	July 8, 1925.
	South side at Nonantum street. Asphalt (macadam base). Laid by city forces.	.....	65	1921	
Washington street (Brighton).....	Nonantum street to 28 feet west of Tremont street. Bitulithic (macadam base). Laid by Warren Brothers Company.	127	508	1919-20	July 8, 1925.
	South side. Asphalt (macadam base). Laid by city forces.....	.....	133	1921	
Water street (city proper).....	2 feet west of Devonshire street to Devonshire street. Pine wood block. Laid by Bernard E. Grant.	2	6	1916	
Water street (city proper).....	Devonshire street to 7 feet east of Devonshire street. Pine wood block. Laid by Bernard E. Grant.	7	33	1916	
Water street (city proper).....	7 feet east of Devonshire street to 7 feet west of Congress street. South side. Pine wood block. Laid by city forces.....	10	250	1918	
	North side. Pine wood block. Laid by city forces.....	.....	300	1920	
	Centre. Pine wood block. Laid by Boston Elevated Railway Company.....	189	300	1921	
	North side. Pine wood block. Laid by Coleman Brothers, Inc.....	.....	38	1921	Nov. 19, 1926.
Water street (city proper).....	7 feet west of Congress street to Congress street. Pine wood block. Laid by Coleman Brothers, Inc.	7	37	1921	Nov. 19, 1926.
Water street (city proper).....	Congress street to 7 feet east of Congress street. Pine wood block. Laid by Coleman Brothers, Inc.	7	33	1921	Nov. 19, 1926.
Water street (city proper).....	7 feet east of Congress street to 22 feet east of Congress street. Asphalt. Laid by Rowe Contracting Company.	15	41	1921	†

[illegible]

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Wentworth street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	1	4	1913	
West street (city proper).....	Washington street to 8 feet west of Washington street. Mack brick block...	8	20	1908	
West street (city proper).....	8 feet west of Washington street to 22 feet east of Tremont street. Black gumwood block. Laid by United States Wood Preserving Company.	463	1,126	1908	
West street (city proper).....	22 feet east of Tremont street to Tremont street. Pine wood block. Laid by Coleman Brothers.	22	64	1915	
West street (Hyde Park).....	9 feet west of Hyde Park avenue to Hyde Park avenue. Topeka. Laid by Martino DeMatteo.	9	30	1921	May 12, 1926.
West street (Hyde Park).....	Hyde Park avenue, 9 feet east of Hyde Park avenue. Topeka. Laid by Martino DeMatteo.	9	28	1921	May 12, 1926.
West Broadway (South Boston).....	209 feet east of Dorchester avenue to 8 feet west of A street. Sicilian rock asphalt. Laid by Boston Asphalt Company.....	348 {	666	1892	
	Acme asphalt. Laid by Warren Brothers Company.....		612	1917	Oct. 18, 1922.
West Broadway (South Boston).....	8 feet west of A street to west side bridge over New England Division, New York, New Haven & Hartford Railroad. Acme asphalt. Laid by Warren Brothers Company.....	378 {	1,215	1917	Oct. 18, 1922.
	Bessemer brick block gutters. Laid by Warren Brothers Company.....		192	1917	Oct. 18, 1922.
West Broadway (South Boston).....	36 feet east of bridge over New England Division, New York, New Haven & Hartford Railroad to 148 feet west of F street. Acme asphalt. Laid by Warren Brothers Company.....	2,153 {	7,438	1917	Oct. 18, 1922.
	Bessemer brick block gutters. Laid by Warren Brothers Company.....		857	1917	Oct. 18, 1922.
West Broadway (South Boston).....	148 feet west of F street to 267 feet east of F street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	446	1,537	1897	
West Broadway (South Boston).....	267 feet east of F street to 28 feet west of Dorchester street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	410	1,246	1898	

West Broadway (South Boston).....	28 feet west of Dorchester street (south) to west side of Dorchester street (north). Bitulithic (crushed stone base). Laid by Warren Brothers Company.	{ }	61	1905	June 11, 1924.
West Brookline street (city proper)....	15 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	15	55	1919	Sept. 18, 1925.
West Brookline street (city proper)....	Tremont street to 15 feet west of Tremont street. Asphalt. Laid by B. E. Grant Company.	15	61	1920	Sept. 18, 1925.
West Brookline street (city proper)....	At Warren avenue. Pine wood block. Laid by Boston Paving Company..	4	59	1920	Sept. 18, 1925.
Westbrook street (East Boston).....	At Saratoga street. Standard asphalt. Laid by Bernudez Company.....	8	16	1913	
West Canton street (city proper).....	20 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	20	32	1918	May 1, 1924.
West Canton street (city proper).....	Tremont street to 13 feet west of Tremont street. Asphalt. Laid by B. E. Grant Company.	13	79	1920	Sept. 18, 1925.
West Canton street (city proper).....	13 feet west of Tremont street to 34 feet west of Tremont street. Asphalt (macadam base). Laid by B. E. Grant Company.	21	53	1920	Sept. 18, 1925.
West Canton street (city proper).....	34 feet west of Tremont street to 4 feet east of Warren avenue. Acme asphalt (macadam base). Laid by Warren Brothers Company.....	564 {	1,798	1916	
West Canton street (city proper).....	Bessemer brick block gutters. Laid by Warren Brothers Company.	}	308	1916	
West Canton street (city proper).....	4 feet east of Warren avenue to Warren avenue. Pine wood block. Laid by Boston Paving Company.	4	18	1913	
West Canton street (city proper).....	Warren avenue to 4 feet west of Warren avenue. Pine wood block. Laid by Boston Paving Company.	4	18	1913	
West Canton street (city proper).....	4 feet west of Warren avenue to 2 feet east of Appleton street. Acme asphalt (macadam base). Laid by Warren Brothers Company.	257 {	828	1916	
West Canton street (city proper).....	Bessemer brick block gutters. Laid by Warren Brothers Company.....	}	145	1916	
West Canton street (city proper).....	2 feet east of Appleton street to Appleton street. Bitulithic. Laid by Fred S. & A. D. Gore Corporation.	2	11	1912	
West Canton street (city proper).....	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906-07	
West Concord street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	16	63	1920	Sept. 18, 1925.

List of Streets Having a Smooth Pavement.— Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
West Dedham street (city proper).....	At Tremont street. Asphalt. Laid by B. E. Grant Company.....	15	59	1920	Sept. 18, 1925.
Westerly street (Roxbury).....	At Centre street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	23	55	1921	Unfinished.
West Fifth street (South Boston).....	At Dorchester street. Bitulithic. Laid by Samuel J. Tomascello.....	4	18	1921	Aug. 31, 1926.
West Fourth street (South Boston).....	2 feet east of E street to E street. Bitulithic. Laid by Warren Brothers Company.	2	7	1903	
West Fourth street (South Boston).....	E street to 207 feet west of E street. Bitulithic. Laid by Warren Brothers Company.	207	759	1903	
Westland avenue (Roxbury).....	At Massachusetts avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	1	9	1901	
* Westland Entrance to Fens (Roxbury)	Westerly curb line of Hemenway street to 18 feet west of easterly curb line of the Fenway. Bitulithic (macadam base). Laid by Warren Brothers Company.	450	2,864	1920	Nov. 5, 1925.
Westminster street (Roxbury).....	Hammond street to 23 feet south of Hammond street. Pine wood block. Laid by Fred S. & A. D. Gore Corporation.	23	120	1912	
Westminster street (Roxbury).....	23 feet south of Hammond street to 6 feet north of Ruggles street. Topeka. Laid by Central Construction Company.	1,153	3,853	1919	June 24, 1924.
Westminster street (Roxbury).....	6 feet north of Ruggles street to Ruggles street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	6	19	1907	
Westminster street (Hyde Park).....	9 feet west of Hyde Park avenue to Hyde Park avenue. Topeka. Laid by Martino DeMatteo.	9	29	1921	May 12, 1926.
Westminster street (Hyde Park).....	Hyde Park avenue to 45 feet east of Hyde Park avenue. Topeka. Laid by Martino DeMatteo.	45	222	1921	May 12, 1926.
Westminster street (Hyde Park).....	45 feet east of Hyde Park avenue to 90 feet east of Hyde Park avenue. Topeka (macadam base). Laid by Martino DeMatteo.	45	120	1921	May 12, 1926.

West Newton street (city proper)	Washington street to Shawmut avenue. Aztec asphalt (macadam base). Laid by Bermudez Company.	323	1,176	1919	May 14, 1924.
West Newton street (city proper)	Shawmut avenue to 13 feet east of Tremont street. Asphalt concrete (macadam base). Laid by Andrews Construction Company.	736	2,783	1921	July 18, 1926.
West Newton street (city proper)	13 feet of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	13	52	1920	Sept. 18, 1925.
West Newton street (city proper)	Tremont street to 17 feet west of Tremont street. Asphalt. Laid by B. E. Grant Company.	17	111	1920	Sept. 18, 1925.
West Newton street (city proper)	17 feet west of Tremont street to 13 feet east of Columbus avenue. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	762	3,021	1904	
West Newton street (city proper)	13 feet east of Columbus avenue to Columbus avenue. Bitulithic. Laid by Fred S. & A. D. Gore Corporation.	13	97	1912	
West Newton street (city proper)	Columbus avenue to 4 feet south of Huntington avenue (not including New York, New Haven & Hartford Railroad Bridge). Bitulithic (crushed stone base). Laid by Central Construction Company.	1,040	3,932	1917	†
West Newton street (city proper)	4 feet south of Huntington avenue to Huntington avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	19	1896	
West Newton street (city proper)	Huntington avenue to 4 feet north of Huntington avenue. Sicilian rock asphalt. Laid by Boston Asphalt Company.	4	19	1896	
West Newton street (city proper)	4 feet north of Huntington avenue to 11 feet north of Huntington avenue. Mexican asphalt (crushed stone base). Laid by Central Construction Company.	7	26	1917	†
West Newton street (city proper)	11 feet north of Huntington avenue, across Belvidere street. Bitulithic (crushed stone base). Laid by Warren Brothers Company.	239	903	1903	
Western avenue (Brighton) (south side),	181 feet west of Riverdale street to 146 feet east of Riverdale street. Topeka (macadam base). Laid by department forces.	.....	345	1920	
Western avenue (Brighton)	94 feet east of Market street to east abutment of bridge. Simaseo. Laid by Simpson Brothers Corporation.	417	977	1921	June 20, 1926.
West Ruriland square (city proper)	Grouted concrete . . . . .	.....	33		
	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906-07	

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
West Seventh street (South Boston)....	At Dorchester street. Bitulithic. Laid by Samuel J. Tomasello.....	4	18	1921	Aug. 31, 1926.
West Sixth street (South Boston)....	At Dorchester street. Bitulithic. Laid by Samuel J. Tomasello.....	4	18	1921	Aug. 31, 1926.
West Sixth street (South Boston)....	C street to D street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	503	1,490	1905	
West Springfield street (city proper)....	15 feet east of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	15	61	1920	Sept. 18, 1925.
West Springfield street (city proper)...	Tremont street to 15 feet west of Tremont street. Asphalt. Laid by B. E. Grant Company.	15	61	1920	Sept. 18, 1925.
West Springfield street (city proper)...	9 feet east of Columbus avenue to Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906-07	
West Third street (South Boston).....	153 feet west of E street to 2 feet east of E street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	187	702	1892	
West Tremlett street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	24	1913	
Westcott street (Dorchester).....	At Talbot avenue. Mack brick block. Laid by James Doherty.....	12	60	1911	
Weston street (Roxbury).....	Warwick street to Cabot street. Topeka. Laid by Central Construction Company.	104	404	1919	July 9, 1924.
Weston street (Roxbury).....	Cabot street to Tremont street. Topeka. Laid by Central Construction Company.	366	978	1919	July 9, 1924.
Weston street (Roxbury).....	At Columbus avenue. Bermudez asphalt. Laid by Boston Asphalt Company.	9	20	1906-07	
Westville street (Dorchester).....	Each side of Geneva avenue. Topeka (macadam base). Laid by department forces.	2	16	1920	
West Walnut park (Roxbury).....	30 feet east of Columbus avenue to Columbus avenue. Asphalt concrete (macadam base). Laid by Simpson Brothers Corporation.	30	96	1921	Aug. 9, 1926.

		19	67	1921	Aug. 9, 1926.
West Walnut park (Roxbury).....	Columbus avenue to 19 feet west of Columbus avenue. Asphalt concrete (macadam base). Laid by Simpson Brothers Corporation.	19		1921	Aug. 9, 1926.
Westwood street (Dorchester).....	Richfield street to the south street line of Wales place. Mexican asphalt. Laid by Central Construction Company.	581	1,755	1917	June 1, 1922.
Wexford street (Brighton).....	At Market street. Simaseo. Laid by Simpson Brothers Corporation.	18	54	1921	June 20, 1926.
Wharf street (city proper).....	At India street. Mexican asphalt. Laid by Central Construction Company.	1	4	1917	
Wheatland avenue (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	38	1913	
Wheeler street (city proper).....	Shawmut avenue to Corning street. Acne asphalt. Laid by Warren Brothers Company.	360	585	1909	
Whitfield street (Dorchester).....	13 feet north of Talbot avenue to Talbot avenue. Mack brick block. Laid by James Doherty.	13	60	1911	
Whitfield street (Dorchester).....	Talbot avenue to 13 feet south of Talbot avenue. Mack brick block. Laid by James Doherty.	13	57	1911	
Whitfield street (Dorchester).....	13 feet south of Talbot avenue to 6 feet north of Southern avenue. Trinidad asphalt. Laid by Central Construction Company.	88	265	1914	
Whitfield street (Dorchester).....	9 feet south of Southern avenue to 2 feet north of Norfolk street. Trinidad asphalt. Laid by Central Construction Company.	414	1,212	1914	
Whitfield street (Dorchester).....	2 feet north of Norfolk street to Norfolk street. Bitulithic. Laid by James Doherty.	2	7	1914	
Whitman street (Dorchester).....	At Norfolk street. Bitulithic. Laid by James Doherty.....	1	4	1913	
Whitmore street (city proper).....	8 feet south of Kneeland street to 6 feet north of Harvard street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	235	417	1895	
Whitmore street (city proper).....	6 feet north of Harvard street to Harvard street. Pine wood block. Laid by J. H. McCarthy.	6	10	1910	
Whitney street (Roxbury).....	At Conant street. Aztec asphalt (macadam base). Laid by Bernudez Company.	7	18	1919	Nov. 1, 1924.
Whitney street (Roxbury).....	Each side Smith street. Aztec asphalt (macadam base). Laid by Bernudez Company.	14	40	1919	Nov. 8, 1924.

List of Streets Having a Smooth Pavement.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Whittemore terrace (Dorchester).....	At Hancock street. Mack brick block. Laid by Central Construction Com- pany.	10	26	1910	
Whitten street (Dorchester).....	Dorchester avenue to east street line Althea road. Bitulithic. Laid by Warren Brothers Company.	1,018	3,098	1921	Aug. 10, 1926.
Whittier street (Roxbury).....	Cabot street to Tremont street. Mack brick block. Laid by John E. Burns & Co.	636	1,874	1909	
Whittier street (Roxbury).....	Tremont street to 5 feet east of Columbus avenue. Mack brick block. Laid by John E. Burns & Co.	207	782	1909	
Whittier street (Roxbury).....	5 feet east of Columbus avenue to Columbus avenue. Bermudez asphalt. Laid by Boston Asphalt Company.	5	25	1906-07	
Wiget street (city proper).....	Salem street to 6 feet west of Salem street. Sicilian rock asphalt. Laid by Boston Asphalt Company.	6	7	1901	
Wiget street (city proper).....	6 feet west of Salem street to North Margin street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	253	233	1897	
Wiggin street (city proper).....	North Bennet street to Tileston street. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	108	120	1905	
Wigglesworth street (Roxbury).....	At Longwood avenue. Mack brick block. Laid by Field, Barker & Under- wood, Inc.	8	23	1910	
Wilbur street (Dorchester).....	Cushing avenue to Upham avenue. Topeka. Laid by Central Construc- tion Company.	336	828	1920	Oct. 20, 1925.
Wilcock street (Dorchester).....	Blue Hill avenue to Morton street. Topeka (macadam base). Laid by Rowe Contracting Company.	778	2,279	1920	July 7, 1925.
Wilder street (Dorchester).....	At Washington street. Pine wood block. Laid by William J. Barry.....	10	30	1912	
Wilkes street (city proper).....	Washington street to Bradford street. Asphalt (macadam base). Laid by Rowe Contracting Company.	264	267	1921	†

Willow street (West Roxbury).....	Centre street to 53 feet north of Centre street. Topeka. Laid by Rowe Contracting Company.	53	198	1921	Aug. 26, 1926.
William Jackson avenue (Brighton)....	Chestnut Hill avenue to Academy Hill road. Asphalt. Laid by John J. Lane.	502	957	1920	Nov. 30, 1925.
Williams street (Roxbury).....	Washington street to Shawmut avenue. Topeka. Laid by Central Construction Company.	514	1,490	1919	June 24, 1924.
Williams street (Roxbury).....	Shawmut avenue to Westminster street. Topeka. Laid by Central Construction Company.	441	1,277	1919	June 24, 1924.
Willis street (Dorchester).....	At Pleasant street. Topeka (macadam base). Laid by Central Construction Company.	41	102	1920	Sept. 22, 1925.
Willow street (West Roxbury).....	Centre street to 53 feet north of Centre street. Topeka. Laid by Rowe Contracting Company.	53	198	1921	Aug. 26, 1926.
Willowwood street (Dorchester).....	At Norfolk street. Bitulithic. Laid by Warren Brothers Company.....	8	25	1918	Nov. 4, 1923.
Wilmore street (Dorchester).....	At Norfolk street. Bitulithic. Laid by Warren Brothers Company.....	11	40	1918	Nov. 4, 1923.
Winchester street (city proper).....	At Broadway. Pine wood block. Laid by Coleman Brothers.....	10	28	1913	
Windermere road (Dorchester).....	At Stoughton street. Topeka (macadam base). Laid by Department forces.	3	10	1920	
Windsor street (Roxbury).....	Shawmut avenue to Westminster street. Topeka. Laid by Central Construction Company.	425	1,605	1919	July 9, 1924.
Windsor street (Roxbury).....	Westminster street to Warwick street. Topeka. Laid by Central Construction Company.	365	1,379	1919	July 9, 1924.
Windsor street (Roxbury).....	Warwick street to Cabot street. Topeka. Laid by Central Construction Company.	164	624	1919	July 9, 1924.
Winship street (Brighton).....	At Washington street. Bitulithic. Laid by Warren Brothers Company....	18	140	1913	
Winslow street (Roxbury).....	At Zeigler street. Bitulithic. Laid by John F. Beatty.....	1	3	1914	
Winslow street (Roxbury).....	At Dudley street. Mack brick block. Laid by James Dolerty.....	8	23	1910	
Winter street (city proper).....	Washington street to 10 feet east of Tremont street. Bitulithic. Laid by Warren Brothers Company.	505	1,122	1913	

List of Streets Having a Smooth Pavement.— Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Winter street (city proper)	10 feet east of Tremont street to Tremont street. Pine wood block. Laid by Coleman Brothers.	10	31	1915	
Winter street (Dorchester)	At Bowdoin street. Mack brick block. Laid by Central Construction Company.	9	45	1913	
Winthrop street (East Boston)	At Maverick square. Aztec asphalt. Laid by Bermudez Company.	9	17	1917	Dec. 15, 1922.
Winthrop street (Hyde Park)	At Hyde Park avenue. Topeka. Laid by Martino DeMatteo.	9	29	1921	May 12, 1926.
Wirt street (Brighton)	At Washington street. Bitulithic. Laid by Warren Brothers Company.	12	212	1913	
Withington street (Dorchester)	At Norfolk street. Bitulithic. Laid by James Doherty.	1	4	1913	
Wollaston terrace (Dorchester)	Woodrow avenue to Jones avenue. Topeka. Laid by Rowe Contracting Company.	313	595	1920	July 29, 1925.
Woodcliff street (Roxbury)	Dacia street to Blue Hill avenue. Bitulithic. Laid by Warren Brothers Company.	310	896	1906	
Woodrow avenue (Dorchester)	At Wollaston terrace. Topeka (macadam base). Laid by Rowe Contracting Company.	.....	10	1920	July 29, 1925.
Woodrow avenue (Dorchester)	49 feet east of Irma street to 10 feet west of Irma street. Bitulithic (macadam base). Laid by Warren Brothers Company.	89	302	1919	May 26, 1924.
Woodrow avenue (Dorchester)	At Lucerne street. Aztec asphalt (macadam base). Laid by Bermudez Company.	.....	25	1919	Oct. 20, 1924.
Woolson street (Dorchester)	At Norfolk street. Bitulithic. Laid by Warren Brothers Company.	8	25	1918	Nov. 4, 1923.
Worcester square (city proper)	Washington street to 3 feet west of Harrison avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	660	3,807	1919	Nov. 11, 1924.
Worcester square (city proper)	3 feet west of Harrison avenue to Harrison avenue. Mexican asphalt. Laid by Central Construction Company.	3	24	1919	Nov. 11, 1924.

Worcester street (city proper)	Columbus avenue to 2 feet east of Columbus avenue. Mexican asphalt. Laid by Central Construction Company.	2	8	1919	Nov. 11, 1924.
Worcester street (city proper)	2 feet east of Columbus avenue to 10 feet east of Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	8	31	1906-07	
Worcester street (city proper)	10 feet east of Columbus avenue to 5 feet west of Tremont street. Mexican asphalt (macadam base). Laid by Central Construction Company.	635	2,460	1919	Nov. 11, 1924.
Worcester street (city proper)	5 feet west of Tremont street to Tremont street. Asphalt. Laid by B. E. Grant Company.	5	22	1920	Sept. 18, 1925.
Worcester street (city proper)	Tremont street to 5 feet east of Tremont street. Asphalt. Laid by B. E. Grant Company.	5	22	1920	Sept. 18, 1925.
Worcester street (city proper)	5 feet east of Tremont street to Shawmut avenue. Mexican asphalt (macadam base). Laid by Central Construction Company.	832	3,151	1919	Nov. 11, 1924.
Worcester street (city proper)	Shawmut avenue to Washington street. Mexican asphalt (macadam base). Laid by Central Construction Company.	340	1,289	1919	Nov. 11, 1924.
Wordsworth street (East Boston)	Coleridge street to 70 feet north of Cowper street. Mexican asphalt. Laid by Central Construction Company.	316	1,090	1917	Aug. 6, 1922.
Wordsworth street (East Boston)	45 feet south of Homer street to 9 feet north of Horace street. Mexican asphalt. Laid by Central Construction Company.	335	1,186	1917	Aug. 6, 1922.
Wordsworth street (East Boston)	8 feet south of Saratoga street to Saratoga street. Standard asphalt. Laid by Bernudez Company.	8	32	1918	May 1, 1924.
Wordsworth street (East Boston)	Saratoga street to 11 feet west of Saratoga street. Standard asphalt. Laid by Bernudez Company.	11	53	1918	May 1, 1924.
Worthington street (Roxbury)	Each side of Smith street. Aztec asphalt (macadam base)	14	42	1919	Nov. 8, 1924.
Worthington street (Roxbury)	8 feet south of Longwood avenue to Longwood avenue. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	23	1910	
Worthington street (Roxbury)	Longwood avenue to 8 feet north of Longwood avenue. Mack brick block. Laid by Field, Barker & Underwood, Inc.	8	26	1910	
Worthington street (Roxbury)	8 feet north of Longwood avenue to street No. 220. Trinidad asphalt. Laid by Central Construction Company.	828	2,395	1915	

List of Streets Having a Smooth Pavement.—Concluded.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Wyman street (Roxbury)	At Centre street. Asphalt concrete (macadam base). Laid by B. E. Grant Company.	10	31	1921	Unfinished.
Yarmouth street (city proper)	At Columbus avenue. Trinidad asphalt. Laid by Barber Asphalt Paving Company.	9	34	1906	
York street (Dorchester)	Greenwood street to Glenway street. Topeka. Laid by Rowe Contracting Company.	440	1,274	1919	Dec. 10, 1924.
Zeigler street (Roxbury)	7 feet east of Washington street to Warren street. Granitoid concrete blocked pavement. Laid by R. S. Blome Company.	315	946	1908	
Zeigler street (Roxbury)	Warren street to Harrison avenue. Bitulithic. Laid by John F. Beatty ...	177	380	1914	
Zeigler street (Roxbury)	8 feet east of Harrison avenue to 9 feet west of Dearborn street. Bitulithic. Laid by John F. Beatty.	866	1,864	1914	
Zeigler street (Roxbury)	9 feet west of Dearborn street to Dearborn street. Acme asphalt. Laid by Warren Brothers Company.	9 {	15	1917	Nov. 20, 1922.
	Bessemer brick block gutters. Laid by Warren Brothers Company.		5	1917	Nov. 20, 1922.

TOTALS OF SMOOTH PAVEMENT STREETS, FEBRUARY 1, 1922.
Wood Block.

KIND.	UNDER GUARANTY.		NOT UNDER GUARANTY.		TOTALS.	
	Length, Feet.	Area, Square Yards.	Length, Feet.	Area, Square Yards.	Length, Feet.	Area, Square Yards.
Black gum.....			944	5,921	944	5,921
Pine.....	17,964	76,749	41,222	189,522	59,186	266,271
Jennison Wright pine.....			529	2,230	529	2,230
Jennison Wright slab wood pavement.....			1,103	6,152	1,103	6,152
Total, wood block.....	17,964	76,749	43,798	203,825	61,762	280,574

Brick Block.

Mack.....			24,027	95,254	24,027	95,254
Barrington.....			566	558	566	558
Metropolitan.....			756	3,059	756	3,059
Vitrified.....			565	503	565	503
Canton block.....			636	1,764	636	1,764
Besemer.....			1,694	9,604	1,694	11,959
Portland stone.....		2,355		128		128
Miscellaneous.....			68	302	68	302
Total, brick block.....		2,355	28,312	111,172	28,312	113,527

SUMMARIES OF SMOOTH PAVEMENT STREETS, FEBRUARY 1, 1922.

KIND.	UNDER GUARANTY.		NOT UNDER GUARANTY.		TOTALS.	
	Length, Feet.	Area, Square Yards.	Length, Feet.	Area, Square Yards.	Length, Feet.	Area, Square Yards.
Asphalt.....	92,410	376,902	147,864	410,614	240,274	787,516
Unionite.....	121	470	.....	.....	121	470
Asphalt concrete.....	24,750	105,123	.....	.....	24,750	105,123
Simasco.....	6,248	20,628	.....	.....	6,248	20,628
Asphalt block.....	.....	.....	98	774	98	774
Bitulithic.....	37,059	159,047	72,098	275,838	109,157	434,885
Topeka.....	62,971	229,729	9,357	28,549	72,328	258,278
Endurite.....	.....	.....	10	1,614	10	1,614
Filbertine.....	326	959	.....	.....	326	959
Concrete road.....	692	2,041	8,344	22,563	9,036	24,604
Granitoid concrete blocked pavement.....	.....	.....	315	946	315	946
Soilamites concrete.....	.....	.....	220	836	220	836
Wood block.....	17,994	76,749	43,798	203,825	61,762	280,574
Brick block.....	.....	2,355	28,312	111,172	28,312	113,527
Secoria block.....	.....	.....	322	254	322	254
Total of all smooth pavements.....	242,541	974,003	310,738	1,056,985	553,279	2,030,988

LIST OF STREETS PAVED WITH GRANITE BLOCKS HAVING A MAINTENANCE GUARANTY.

All Pavement laid on a Concrete Base unless otherwise designated.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
A street (South Boston).....	7 feet west of Gold street to Dorchester avenue. Laid by Central Construction Company. (Old.) Grout joints.	54	209	1918	Nov. 9, 1922.
Albano street (West Roxbury).....	Each side of Washington street. Laid by Gore, Inc. Asphalt mastic joints. (New.)	16	50	1921	Dec. 12, 1926.
Albany street (city proper).....	Keloland street to Boston & Albany Railroad Bridge. Laid by Coleman Brothers. (New.) Grout joints.	1,272	5,828	1918	Aug. 13, 1923.
Albany street (city proper).....	Broadway to 72 feet south of Broadway. Laid by James Doherty. (New.) Grout joints.	72	433	1921	May 9, 1926.
Albany street (city proper).....	72 feet south of Broadway to 6 feet south of Oneida street. Laid by James Doherty. (Old blocks.) Grout joints.	176	1,056	1920-21	May 9, 1926.
Albany street (city proper).....	6 feet south of Oneida street to 13 feet south of Genesee street. Laid by James Doherty. (New block.) Grout joints.	248	1,488	1920-21	May 9, 1926.
Albany street (city proper).....	13 feet south of Genesee street to 84 feet south of Troy street. Laid by James Doherty. (Old block.) Grout joints.	328	1,968	1920-21	May 9, 1926.
Albany street (city proper).....	Dover street to 7 feet north of Stoughton street. Laid by Bernard E. Grant. (New.) Grout joints.	3,577	22,144	1917	Jan. 21, 1923.
Albion place (Charlestown).....	At Main street. Laid by William J. Barry. (Recut block.) Grout joints...	13	37	1919-20	June 12, 1925.
Alden street (city proper).....	At Sudbury street. Laid by Simpson Brothers Corporation. (New.) Grout joints.	6	24	1918	Sept. 6, 1923.
Amory street (Roxbury).....	Centre street to 10 feet north of Bragdon street. Laid by James Doherty. (New.) Grout joints.	1,398	5,525	1917	June 1, 1922.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Anderson street (city proper).....	At Cambridge street. Laid by Central Construction Company. (Recut.) Grout joints.	8	25	1919	Aug. 16, 1924.
Ashland street (West Roxbury).....	Washington street to 51 feet south of Washington street. Laid by William J. Barry. (New.) Grout joints.	51	194	1920	Dec. 24, 1925.
Atlantic avenue (city proper).....	South street line of Kneeland street to 91 feet south of Summer street. Laid by Coleman Brothers. (Old.) Grout joints.	1,153	8,790	1918	Nov. 2, 1923.
Atlantic avenue (city proper).....	67 feet north of Summer street across Broad street. Laid by Bernard E. Grant. (Old.) Grout joints.	2,021	17,095	1918-19	Oct. 3, 1924.
Atlantic avenue (city proper).....	Broad street to south side of South Market street. Laid by Rossetti & Co. (New.) Grout joints.	1,281	11,152	1918	Jan. 17, 1924.
Atlantic avenue (city proper).....	South side of South Market street to Commercial street. Laid by D'Onfro Brothers. (New.) Grout joints.	1,270	11,043	1918-19	May 31, 1924.
Auburn street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	16	48	1919	June 12, 1925.
Austin street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	13	37	1919	June 12, 1925.
Baldwin street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	12	52	1919	June 12, 1925.
Baldwin street (Charlestown).....	At Main street. Laid by Coleman Brothers. (Recut.) Grout joints.....	10	32	1920	July 8, 1925.
Beach street (city proper).....	Harrison avenue to Atlantic avenue. Laid by Bernard E. Grant. (New.) Grout joints.	1,264	4,811	1917	Aug. 6, 1922.
Beacon street (city proper).....	12 feet west of Tremont street to 21 feet west of Park street. Laid by Ber- nard E. Grant. (New.) Grout joints.	827	2,318	1917	Oct. 21, 1922.
Beacon street (city proper).....	21 feet west of Park street to Charles street. Laid by Bernard E. Grant. (Gutters — old blocks.) Grout joints.	.....	1,124	1917	Nov. 15, 1922.
Belcher lane (city proper).....	At Atlantic avenue. Laid by Bernard E. Grant. (Old.) Grout joints.....	9	9	1919	Oct. 3, 1924.

Belden street (Dorchester).....	At Dudley street. Laid by DeStefano Brothers. (Old block.) Grout joints.	10	17	1920-21	April 5, 1926.
Bellflower street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	11	33	1919	Aug. 30, 1924.
Bennington street (East Boston).....	Central square, across Marion street. Laid by McGuire & McGourty. (Recut.) Grout joints.	878	3,317	1919	Dec. 13, 1924.
Bennington street (East Boston).....	Marion street, across Prescott street. Laid by McGuire & McGourty. (Recut.) Grout joints.	1,942	4,116	1919	Dec. 13, 1924.
Bennington street (East Boston).....	Prescott street to 76 feet north of Prescott street. Laid by McGuire & McGourty. (Recut.) Grout joints.	76	120	1919	Dec. 13, 1924.
Benton street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints....	12	33	1919	Dec. 12, 1924.
Blackstone street (city proper).....	Clinton street to Hanover street. Laid by Coleman Brothers. (Old blocks.) Grout joints.	699	3,299	1920	Sept. 9, 1925.
Blackstone street (city proper).....	Hanover street to 28 feet south of Haymarket square. Laid by Coleman Brothers. (Old block.) Grout joints.	388	1,733	1920	Sept. 9, 1925.
Blossom street (city proper).....	Cambridge street to 10 feet north of Cambridge street. Laid by Central Construction Company. (Recut.) Grout joints.	10	29	1919	Aug. 16, 1924.
Bowker street (city proper).....	At Sudbury street. Laid by Simpson Brothers Corporation. (Old.) Grout joints, gravel base.	57	215	1918	Sept. 6, 1923.
Boylston street (Roxbury).....	14 feet west of St. Cecilia street to 90 feet east of Massachusetts avenue. Laid by James Doherty. (New.) Grout joints.	136	504	1919	Aug. 30, 1924.
Boylston street (Roxbury).....	Boston & Albany Railroad Bridge to 14 feet west of St. Cecilia street. Laid by James Doherty. (Recut.) Grout joints.	91	363	1919	Aug. 30, 1924.
Branch street (city proper).....	At Charles street. Laid by B. E. Grant Company. (Recut.) Grout joints.	10	18	1921	Nov. 19, 1926
Bremen street (East Boston).....	193 feet north of Maverick street to 110 feet north of Porter street. Laid by Coleman Brothers, Inc. (Old.) Gravel base. Grout joints.	1,239	3,332	1921	July 5, 1926.
Broad street (city proper).....	At Atlantic avenue. Laid by Bernard E. Grant. (New.) Grout joints....	66	477	1919	Oct. 3, 1924.
Broadway (city proper).....	Albany street to bridge abutment at Lehigh street. Laid by James Doherty. (Old.) Grout joints.	142	591	1921	May 9, 1926.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Broadway (city proper).....	Washington street to Harrison avenue. Laid by James Doherty. (Recut.) Grout joints.	385	1,750	1918	Oct. 5, 1923.
Broadway (city proper).....	Harrison avenue to Boston & Albany Railroad Bridge. Laid by James Doherty. (Recut.) Grout joints.	230	1,120	1918	Oct. 5, 1923.
Brooks street (East Boston).....	At each side of Bennington street. Laid by McGuire & McGourty. (Re- cut.) Grout joints.	18	65	1919	Dec. 13, 1924.
Buckingham street (city proper).....	At Dartmouth street. Laid by James Doherty. (Recut.) Grout joints..	10	36	1918	Oct. 26, 1923.
Bunker Hill street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	30	120	1920	June 12, 1925.
Burke street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints....	14	38	1919	Dec. 12, 1924.
Burlington avenue (Roxbury).....	Brookline avenue to Boston & Albany Railroad. Laid by Gore, Inc. (Re- cut.) Grout joints.	516	1,942	1919	July 19, 1924.
Bushnell street (Dorchester).....	At Dorchester avenue. Laid by Gore, Inc. (Recut.) Grout joints.....	9	142	1921	Nov. 24, 1926.
C street (South Boston).....	At Fargo street. Each side of Fargo street. Laid by B. E. Grant Company. (Recut.) Grout joints.	8	92	1921	May 2, 1926.
Cabot street (Roxbury).....	Tremont street to 154 feet south of Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints.	154	692	1919	Dec. 12, 1924.
Cambridge street (city proper).....	Charles street across South Russell street. Laid by Central Construction Company. (Recut.) Grout joints.	1,309	5,206	1919	Aug. 16, 1924.
Cambridge street (Charlestown).....	Main street to 73 feet west of Main street. Laid by William J. Barry. (Recut.) Grout joints.	73	985	1919	June 12, 1925.
Cambridge street (Charlestown).....	73 feet west of Main street to 63 feet west of Rutherford avenue. Laid by Coleman Brothers. (Old.) Grout joints.	118	973	1920	July 18, 1925.
Canal street (city proper).....	Haymarket square to Causeway street. Laid by Bernard E. Grant. (New.) Grout joints.	1,060	5,493	1917	July 9, 1922.

Causeway street (city proper).....	At Portland street. Laid by B. E. Grant Company. (Old.) Grout joints.	124	1921	June 28, 1926.
Causeway street (city proper).....	12 feet west of Washington Street North, across Prince street. Laid by Bernard F. Grant. (Old.) Grout joints.	251	1919	Nov. 1, 1924.
Central street (city proper).....	At Atlantic avenue. Laid by Rossetti & Co. (New.) Grout joints.....	52	1918	Jan. 17, 1924.
Centre avenue (Dorchester).....	At Dorchester avenue. Laid by Gore, Inc. Asphalt joints. (New.).....	10	1921	Nov. 24, 1926.
Centre street (Roxbury).....	104 feet east of Columbus avenue to 92 feet west of Columbus avenue. Laid by John Kelly Company. (Recut and old.) Grout joints.	196	1921	Oct. 13, 1926.
Centre street (Roxbury).....	92 feet west of Columbus avenue to 28 feet west of Parker street. Laid by B. E. Grant Company. (Recut.) Grout joints.	997	1921	Unfinished.
Centre street (Roxbury).....	28 feet west of Parker street, across Forbes street. Laid by B. E. Grant Company. (Brows to track.) (Recut.) Grout joints.	296	1921	Unfinished.
Centre street (Roxbury).....	Forbes street to 264 feet east of Barbara street. Laid by B. E. Grant Company. (Brows to west track.) (Recut.) Grout joints.	42	1921	Unfinished.
Centre street (West Roxbury).....	Boylston street to 104 feet west of Lockstead avenue. Laid by B. E. Grant Company. (Brows to track.) (Recut.) Grout joints.	150	1921	Unfinished.
Centre street (Dorchester).....	11 feet east of Dorchester avenue to Dorchester avenue. Laid by Gore, Inc. (Recut.) Grout joints.	11	1921	Unfinished.
Centre street (Dorchester).....	Dorchester avenue to 12 feet west of Dorchester avenue. Laid by Gore, Inc. (New.) Asphalt joints.	12	1921	Nov. 24, 1926.
Channing street (city proper).....	Federal street to 9 feet east of Federal street. Laid by James Doherty. (Recut.) Grout joints.	9	1919	April 29, 1925.
Channing street (city proper).....	9 feet east of Federal street to Congress street. Laid by James Doherty (Old.) Grout joints. Gravel base.	221	1919-20	April 29, 1925.
Chapman street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Gravel base. Grout joints.	10	1919	June 12, 1925.
Chapman street (Charlestown).....	Each side Rutherford avenue. Laid by Coleman Brothers. (Recut.).....	31	1920	July 8, 1925.
Chardon street (city proper).....	At Portland street. Laid by B. E. Grant Company. (Old.) Grout joints.	70	1921	June 28, 1926.
Charles street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	10	1920	June 12, 1925.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Charles street (city proper).....	Shortside road to Cambridge street. Laid by B. E. Grant Company. (New.) Asphalt joints.	103	477	1921	Nov. 19, 1926.
Charter street (city proper).....	At Commercial street. Laid by Bernard E. Grant. (Old.) Grout joints...	9	25	1918	Nov. 1, 1924.
Chestnut avenue (Roxbury).....	At Centre street. Laid by B. E. Grant Company. (Recut.) Grout joints..	10	40	1921	Unfinished.
Church street (city proper).....	Tremont street to 10 feet north of Tremont street. Laid by James Doherty. (New.) Grout joints.	10	30	1919	July 15, 1925.
Church street (city proper).....	10 feet north of Tremont street to 6 feet south of Fayette street. Laid by James Doherty. (Old.) Grout joints.	129	372	1919	July 15, 1924.
Clarendon street (city proper).....	Bridge over Boston & Albany Railroad to Stuart street. Laid by Gore, Inc. (New.) Grout joints.	418	1,674	1921	Aug. 10, 1926.
Clark street (city proper).....	At Commercial street. Laid by D'Onfro Brothers. (Old.) Grout joints....	10	26	1919	Aug. 13, 1924.
Clifton street (Dorchester).....	At Dudley street. Laid by DeStefano Brothers. (Old.) Grout joints.....	10	62	1920	April 5, 1926.
Clinton street (city proper).....	Merchants row, across Commercial street. Laid by Coleman Brothers. (New.) Grout joints.	593	2,589	1918	July 27, 1923.
Columbia road (Dorchester).....	Each side of Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	28	62	1919	Aug. 30, 1924.
Columbus avenue (Roxbury).....	67 feet north of Station street to Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints.	186	1,328	1919	Dec. 12, 1924.
Columbus avenue (Roxbury).....	Tremont street, across Centre street. Laid by John Kelly Company. (Recut and old.) Grout joints.	2,908	19,279	1921	Oct. 13, 1926.
Columbus avenue (Roxbury).....	Centre street to 84 feet south of Centre street. Laid by John Kelly Com- pany. (Recut and old.) Grout joints.	84	504	1921	Oct. 13, 1926.
Commerce street (city proper).....	At Atlantic avenue. Laid by Rossetti & Co. (New.) Grout joints.....	39	173	1918	Jan. 17, 1924.

Commercial street (city proper).....	Hanover street, across Hull street. Laid by Bernard E. Grant. (Old.) GROUT JOINTS.	1,453	9,088	1918-19	Nov. 1, 1924.
Commercial street (city proper).....	Hull street to Prince street. Laid by Bernard E. Grant. (Old.) GROUT JOINTS.	234	1,178	1918	Nov. 1, 1924.
Commercial street (city proper).....	North side of Fleet street, across Hanover street. Laid by D'Onofro Brothers. (Old.) GROUT JOINTS.	1,341	9,050	1918-19	Aug. 13, 1924.
Commercial street (city proper).....	38 feet south of Richmond street to Richmond street. Laid by B. E. Grant Company. (Old.) GROUT JOINTS.	38	205	1921	July 8, 1926.
Commercial street (city proper).....	Richmond street to 6 feet north of Richmond street. Laid by B. E. Grant Company. (Old.) GROUT JOINTS.	6	33	1921	July 8, 1926.
Common street (city proper).....	At Tremont street. Laid by James Doherty. (New.) GROUT JOINTS.....	49	173	1919	July 15, 1924.
Congress street (city proper).....	Atlantic avenue to Harbor line. Laid by John E. Quinn. (New.) GROUT JOINTS.	611	4,084	1918	Aug. 28, 1923.
Congress street (city proper).....	35 feet north of Atlantic avenue to Atlantic avenue. Laid by Bernard E. Grant. (Old.) GROUT JOINTS.	35	160	1919	Oct. 3, 1924.
Congress street (city proper).....	Franklin street to 138 feet north of Franklin street. Laid by James Doherty. (Old.) GROUT JOINTS.	138	640	1920	Sept. 2, 1925.
Corinth street (West Roxbury).....	At Washington street. Laid by William J. Barry. (New.) GROUT JOINTS.....	19	74	1920	Dec. 24, 1925.
Corning street (city proper).....	At Tremont street. Laid by James Doherty. (Old.) GROUT JOINTS.....	10	31	1919	July 15, 1924.
Crescent avenue (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) GROUT JOINTS.	12	74	1919	Aug. 30, 1924.
Cross street (city proper).....	Commercial street to 9 feet east of North street. Laid by Coleman Brothers. (New.) GROUT JOINTS.	467	998	1918	July 28, 1923.
Cross street (city proper).....	3 feet west of North street to 4 feet east of Hanover street. Laid by Coleman Brothers. (New.) GROUT JOINTS.	287	627	1918	July 28, 1923.
Cross street (city proper).....	4 feet west of Hanover street to 2 feet east of Endicott street. Laid by Coleman Brothers. (New.) GROUT JOINTS.	439	781	1918	July 28, 1923.
Cross street (city proper).....	1 foot west of Endicott street to 9 feet east of Haymarket square. Laid by Coleman Brothers. (New.) GROUT JOINTS.	195	585	1918	July 28, 1923.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Canard street (Roxbury).....	Each side of Tremont street. Laid by Bernard E. Grant. (Recut.) GROUT joints.	22	85	1919	Dec. 12, 1924.
Dartmouth street (city proper).....	Tremont street to 4 feet south of Warren avenue. Laid by James Doherty. (New.) GROUT joints.	502	2,240	1918	Oct. 26, 1923.
Dartmouth street (city proper).....	4 feet north of Warren avenue to Columbus avenue. Laid by James Doherty. (New.) GROUT joints.	536	2,381	1918	Oct. 26, 1923.
Dartmouth street (city proper).....	10 feet north of Columbus avenue to bridge over New York, New Haven & Hartford Railroad. Laid by James Doherty. (New.) GROUT joints.	464	1,490	1918	Oct. 26, 1923.
Dartmouth street (city proper).....	Bridge over Boston & Albany Railroad to 3 feet south of Stuart street. Laid by James Doherty. (New.) GROUT joints.	131	482	1918	Oct. 26, 1923.
Devens street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) GROUT joints.....	57	200	1919	June 12, 1925.
Devonshire street (city proper).....	North side of Franklin street to 100 feet south of Franklin street. Laid by James Doherty. (Old.) GROUT joints.	100	390	1920	Sept. 2, 1925.
Dorchester avenue (city proper).....	Congress street to Summer street. Laid by John E. Quinn. (New.) GROUT joints.	316	2,107	1918	Aug. 26, 1923.
Dorchester avenue (South Boston)....	South abutment. Bridge over Fort Point Channel to 3 feet south of West Second street. Laid by John Kelly Company. (Old.) GROUT joints.	719	3,489	1920	Dec. 24, 1925.
Dorchester avenue (South Boston)....	176 feet north of Hyde street to 3 feet north of Ralston street. Laid by William J. Barry. (Recut.) GROUT joints.	368	1,635	1919	Aug. 30, 1924.
Dorchester avenue (South Boston)....	South side bridge over Old Colony Railroad to 150 feet south of Washburn street. Laid by William J. Barry. (Recut.) GROUT joints.	525	2,333	1919	Aug. 30, 1924.
Dorchester avenue (Dorchester).....	150 feet south of Washburn street to 67 feet north of Victoria street. Laid by William J. Barry. (Recut.) GROUT joints.	3,381	15,027	1919	Aug. 30, 1924.
Dorchester avenue (Dorchester).....	10 feet south of Hallam street to 8 feet south of Savin Hill avenue. Laid by William J. Barry. (Recut.) GROUT joints.	553	2,478	1919	Aug. 30, 1924.

Dorchester avenue (Dorchester).....	8 feet south of Savin Hill avenue to 52 feet north of East street. Laid by Bernard E. Grant. (Recut.) Grout joints.	Laid by	1,895	8,422	1917	Nov. 17, 1922.
Dorchester avenue (Dorchester).....	52 feet north of East street to 148 feet south of Charles street. (Recut.) East side and between tracks laid by James Doherty. Grout joints.....		2,742 {	7,408 {	1918	Dec. 1, 1923.
Dorchester avenue (Dorchester).....	West side laid by Bernard E. Grant. Grout joints.....			4,125 }	1917	Dec. 18, 1922.
Dorchester avenue (Dorchester).....	148 feet south of Charles street to 27 feet south of Park street. Laid by James Doherty. (Old.) Grout joints.	Laid by	673	2,808	1918	Dec. 19, 1923.
Dorchester avenue (Dorchester).....	27 feet south of Park street to 29 feet north of Dix street. Laid by Gore, Inc. (Recut.) Grout joints.....					
Dorchester avenue (Dorchester).....	West side. New asphalt joints.....		1,261 {	3,708 {	1921	Nov. 24, 1926.
Dorchester avenue (Dorchester).....	North side of Mather street to 49 feet north of King street. Laid by Gore, Inc. (Recut.) Grout joints.....			1,616 }	1921	Nov. 24, 1926.
Dorchester avenue (Dorchester).....	West side. New asphalt joints.....		986 {	2,898 {	1921	Nov. 24, 1926.
Dorchester avenue (Dorchester).....	9 feet south of Rosland street to bridge over New York, New Haven & Hartford Railroad. Laid by Gore, Inc. (Recut.) Grout joints.....			1,265 }	1921	Nov. 24, 1926.
Dorchester avenue (Dorchester).....	East side. (Recut.) Grout joints.....		1,885 {	5,530 {	1921	Nov. 24, 1926.
Dorchester avenue (Dorchester).....	West side. New asphalt joints.....			7,959 }	1921	Nov. 24, 1926.
Dorchester avenue (Dorchester).....	South side of bridge over New York, New Haven & Hartford Railroad (Peabody square) to 118 feet south of Ballows place. Laid by James Doherty. (Old.) Grout joints.		3,934	16,610	1917-18	June 4, 1923.
Dorchester avenue (Dorchester).....	2 feet north of Richmond street to Washington street. Laid by James Doherty. (Old.) Gravel base. Grout joints.	Laid by James	609	2,394	1917-18	June 4, 1923.
Dorchester street (South Boston).....	East side West Eighth street to 106 feet north of West Eighth street. Laid by Samuel J. Tomasello. (Asphalt joints.) (Old.)	Laid	106	239	1921	Aug. 3, 1926.
Doris street (Dorchester).....	Each side of Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	(Recut.) Grout	9	47	1919	Aug. 30, 1924.
Dorset street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints,	(Recut.) Grout joints,	11	33	1919	Aug. 30, 1924.
Draut street (Dorchester).....	At Dorchester avenue. Laid by Gore, Inc. (Recut.) Grout joints.....	(Recut.) Grout joints.....	11	53	1921	Nov. 24, 1926.
Dudley street (Dorchester).....	50 feet west of Magnolia street to Columbia road. Laid by De Stefano Brothers. (Old.) Grout joints.	Laid by De Stefano	1,412	5,914	1920	April 5, 1926.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Dunstable street (Charlestown)	At Main street. Laid by William J. Barry. (Recut.) Grout joints.	19	20	1919	June 12, 1925.
Dunstable street (Charlestown)	At Main street. Laid by William J. Barry. (Recut.) Grout joints.	10	25	1920	June 12, 1925.
East Cottage street (Dorchester)	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	10	67	1919	Aug. 30, 1924.
East Fourth street (South Boston)	At Dorchester street. Laid by Samuel J. Tomasello. (Old.) Asphalt joints.	12	46	1921	Aug. 3, 1926.
East Fourth street (South Boston)	8 feet west of K street across P street. Laid by John E. Quinn. (Recut.) Grout joints.	159	3,436	1919-20	May 24, 1925.
Eastern avenue (city proper)	At Commercial street. Laid by D'Onfro Brothers. (Old.) Grout joints.	9	62	1919	Aug. 13, 1924.
Echo street (Roxbury)	At Columbus avenue. Laid by John Kelly Company. (Recut.) Grout joints.	12	24	1921	Oct. 13, 1926.
Eden street (Charlestown)	At Main street. Laid by William J. Barry. (Recut.) Grout joints.	34	85	1919	June 12, 1925.
Edison green (Dorchester)	North road at Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	11	83	1919	Aug. 30, 1924.
Edison green (Dorchester)	South road at Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	9	50	1919	Aug. 30, 1924.
Edwin street (Dorchester)	At Dorchester avenue. Laid by Gore, Inc. (Recut.) Grout joints.	12	65	1921	Nov. 24, 1926.
Elton street (Dorchester)	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	10	33	1919	Aug. 30, 1924.
Essex street (Charlestown)	At Hancock square. Laid by William J. Barry. (Recut.) Grout joints.	12	50	1919	June 12, 1925.
Essex street (Charlestown)	Main street across Hancock square. Laid by William J. Barry. (Recut.) Grout joints.	134	770	1919	June 12, 1925.
Essex street (Charlestown)	At Rutherford avenue. Laid by Coleman Brothers. (Recut.) Grout joints.	10	40	1920	July 8, 1925.
Fargo street (South Boston)	12 feet east of B street to 130 feet west of C street. Laid by B. E. Grant Company. (Recut.) Grout joints.	340	1,142	1921	May 2, 1926.

Fargo street (South Boston)	130 feet west of C street to C street. Laid by Bernard E. Grant Company. (Recut.) GROUT JOINTS.	130	636	1920	May 2, 1926.
Federal street (city proper)	8 feet south of Franklin street to Dewey square to Purchase street. Laid by James Doherty. (Recut.) GROUT JOINTS.	1,654	5,372	1919	April 29, 1925.
Foster street (city proper)	At Commercial street. Laid by Bernard E. Grant. (Old.) GROUT JOINTS.	10	10	1918	Nov. 1, 1924.
Foundry street (South Boston)	Dorchester avenue to South side of West First street. Laid by John Kelly Company. (Old.) GROUT JOINTS.	135	1,408	1920	Dec. 24, 1925.
Franklin street (city proper)	West of Devonshire street to Pearl street, not including Devonshire street, Federal street and Congress street intersections. Laid by James Doherty. (Old.) GROUT JOINTS.	598	2,753	1920	Sept. 2, 1925.
Franklin street (Charlestown)	At Main street. Laid by William J. Barry. (Recut.) GROUT JOINTS.	12	30	1919	June 12, 1925
Freeport street (Dorchester)	At Dorchester avenue. Laid by James Doherty. (Recut.) GROUT JOINTS.	51	280	1918	Dec. 1, 1923.
Friend street (city proper)	Union street to Hanover street. Laid by B. E. Grant Company. (Old.) GROUT JOINTS.	371	1,048	1920	April 27, 1926.
Friend street (city proper)	48 feet north of Washington street to south side of Sudbury street. Laid by B. E. Grant Company. (Old.) GROUT JOINTS.	285	570	1920	April 27, 1926.
Friend street (city proper)	5 feet north of Sudbury street to 21 feet south of Merrimac street. Laid by B. E. Grant Company. (Old.) GROUT JOINTS.	144	434	1920	April 27, 1926.
Friend street (city proper)	21 feet south of Merrimac street to Causeway street. Laid by B. E. Grant Company. (Old.) GROUT JOINTS.	981	2,858	1921	April 27, 1926.
Frothingham avenue (Charlestown)	At Main street. Laid by William J. Barry. (Recut.) GROUT JOINTS.	9	20	1919	June 12, 1925.
Frothingham avenue (Charlestown)	At Rutherford avenue. Laid by Coleman Brothers. (Recut.) GROUT JOINTS.	10	25	1920	July 8, 1925.
Fulton street (city proper)	39 feet south of Richmond street to 27 feet north of Richmond street. Laid by B. E. Grant Company. (Old.) GROUT JOINTS.	94	356	1921	July 8, 1926.
Garden street (city proper)	At Cambridge street. Laid by Central Construction Company. (Recut.) GROUT JOINTS.	8	25	1919	Aug. 16, 1924.
Genesee street (city proper)	15 feet west of Albany street to Albany street. Laid by James Doherty. (New.) GROUT JOINTS.	15	36	1920	May 9, 1926.
Geneva avenue (Dorchester)	At Dorchester avenue. Laid by Gore, Inc. Asphalt joints. (New.)	10	72	1921	Nov. 24, 1926.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty. — Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Gibson street (Dorchester)	At Dorchester avenue. Laid by Goffe, Inc. (Recut.) Grout joints.	9	50	1921	Nov. 24, 1926.
Grafton street (Dorchester)	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	10	33	1919	Aug. 30, 1924.
Green street (Charlestown)	At Main street. Laid by William J. Barry. (Recut.) Grout joints.	12	40	1919	June 12, 1925.
Grove street (city proper)	At Cambridge street. Laid by Central Construction Company. (Recut.) Grout joints.	8	25	1919	Aug. 16, 1924.
Hanover street (city proper)	Elm street to Washington street. Laid by B. E. Grant Company. (Old.) Grout joints.	180	835	1921	June 28, 1926.
Hanover street (city proper)	Washington street to 5 feet east of Friend street. Laid by Bernard E. Grant. (New.) Grout joints.	45	264	1917	Sept. 24, 1922.
Hanover street (city proper)	Each side of Blackstone street. Laid by Coleman Brothers. (Old.) Grout joints.	60	306	1920	Sept. 9, 1925.
Hanover street (city proper)	Each side Commercial street. Laid by Bernard E. Grant. (Old.) Grout joints.	21	100	1919	Nov. 1, 1924.
Harbor View street (Dorchester)	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	10	40	1919	Aug. 30, 1924.
Harrison avenue (city proper)	22 feet north of Harvard street to bridge over Boston & Albany Railroad. Laid by Coleman Brothers. (New.) Grout joints.	1,180	4,172	1918	June 19, 1923.
Harrison avenue (city proper)	Bridge over New York, New Haven & Hartford Railroad across Asylum street. Laid by Bernard E. Grant. (New.) Grout joints.	367	1,362	1917	Dec. 17, 1922.
Harrison avenue (city proper)	Asylum street across Davis street. (At street car tracks.) Laid by Bernard E. Grant. (Recut.) Grout joints.	.....	295	1917	Dec. 17, 1922.
Harrison avenue (city proper)	Davis street to 2 feet north of Decatur street. Laid by Bernard E. Grant. (New.) Grout joints.	256	960	1917	Dec. 17, 1922.

Harrison avenue (city proper).....	2 feet north of Decatur street across Gloucester place. (At street car tracks.) Laid by Bernard E. Grant. (Recut.) Grout joints.	.....	262	1917	Dec. 17, 1922.
Harrison avenue (city proper).....	Gloucester place to 5 feet north of Dover street. Laid by Bernard E. Grant, (New.) Grout joints.	165	607	1917	Dec. 17, 1922.
Harvard street (Charlestown).....	At Deacons street. Laid by William J. Barry. (Recut.) Grout joints.....	8	17	1919	June 12, 1925.
Harvest street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	12	55	1919	Aug. 30, 1924.
Havre street (East Boston).....	122 feet south of Bennington street to Bennington street. Laid by McGuire & McGourty. (Recut.) Grout joints.	122	556	1919	Dec. 13, 1924.
Hawkins street (city proper).....	Sudbury street to Chardon street. Laid by Simpson Brothers Corporation. (Old.) Grout joints.	444	904	1918	Sept. 6, 1923.
Haymarket square (city proper).....	Laid by Bernard E. Grant. (New.) Grout joints.....	496	6,708	1917	Sept. 15, 1922.
Heath street (Roxbury).....	At Columbus avenue. Laid by John Kelly Company. (Recut.) Grout joints.	11	57	1921	Oct. 13, 1926.
Henchman street (city proper).....	At Commercial street. Laid by Bernard E. Grant. (Old.) Grout joints....	10	20	1918	Nov. 1, 1924.
Henley street (Charlestown).....	East side of Main street. Laid by William J. Barry. (Recut.) Grout joints,	17	45	1919	June 12, 1925.
High street (city proper).....	Each side of Federal street. Laid by James Doherty. (Recut.) Grout joints,	20	90	1919	June 12, 1925.
Howell street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints....	11	33	1919	Aug. 30, 1924.
Howes street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints....	10	30	1919	Aug. 30, 1924.
Hull street (city proper).....	At Commercial street. Laid by Bernard E. Grant. (New.) Grout joints.....	8	20	1918	Nov. 1, 1924.
Humphreys street (Dorchester).....	At Dudley street. Laid by DeStefano Brothers. (Old.) Grout joints.....	9	53	1920	April 5, 1926.
India street (city proper).....	State street to 9 feet east of Milk street. Laid by Bernard E. Grant. (New.) Grout joints.	381	4,430	1917	June 19, 1922.
India street (city proper).....	Angle near Export street to Atlantic avenue. Laid by Rossetti & Co. (Old.) Grout joints.	136	520	1918	Jan. 17, 1924.
Irving street (city proper).....	At Cambridge street. Laid by Central Construction Company. (Recut.) Grout joints.	8	25	1919	Aug. 16, 1924.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Kittridge street (West Roxbury).....	At Washington street. Laid by Gore, Inc. New asphalt joints.	9	35	1921	Dec. 12, 1926.
Lake street (Brighton).....	At Washington street. Laid by Warren Brothers Company. (Recut.) Grout joints.	11	48	1919	July 8, 1925.
Lamartine street (Roxbury).....	Centre street to 63 feet south of Centre street. Laid by B. E. Grant Company. (Recut.) Grout joints.	63	230	1921	Unfinished.
Lehigh street (city proper).....	At Albany street. Laid by James Doherty. (Old.) Grout joints.....	21	96	1920	May 9, 1926.
Lincoln street (city proper).....	Essex street to Beach street. Laid by Bernard E. Grant. (New.) Grout joints.	505	2,442	1917	July 20, 1922.
Lincoln street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	10	32	1919	June 12, 1925.
Lincoln street (Charlestown).....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.) Grout joints..	10	38	1920	July 8, 1925.
Linden Park street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints....	8	25	1919	Dec. 12, 1924.
Linwood place (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	11	23	1919	June 12, 1925.
Locust street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints....	10	33	1919	Aug. 30, 1924.
London street (East Boston).....	118 feet south of Bennington street to Bennington street. Laid by McGuire & McGourty. (Recut.) Grout joints.	118	552	1919	Dec. 13, 1924.
Lonsdale street (Dorchester).....	At Dorchester avenue. Laid by Gore, Inc. (Recut.) Grout joints.....	13	56	1921	Nov. 24, 1926.
M street (South Boston).....	At East Fourth street. Laid by John E. Quinn. (Recut.) Grout joints....	9	38	1920	May 24, 1925.
Main street (Charlestown).....	City square, across Hancock square. Laid by William J. Barry. (Recut.) Grout joints.	3,121	17,241	1919	June 12, 1925.
Main street (Charlestown).....	Hancock square to 104 feet north of Alford street. Laid by William J. Barry. (Recut.) Grout joints.	2,688	17,329	1919	June 12, 1925.

Marion street (East Boston).....	Each side of Bennington street. Laid by McGuire & McGourty. (Recut.) Grout joints.	17	71	1919	Dec. 13, 1924.
Market street (city proper).....	Friend street to Canal street. Laid by B. E. Grant Company. (Old.) Grout joints.	168	488	1921	April 27, 1926.
Market street (city proper).....	Portland street to Merrimac street. Laid by B. E. Grant Company. (Old.) Grout joints.	83	258	1921	June 28, 1926.
Mather street (Dorchester).....	At Dorchester avenue. Laid by Gore, Inc. Asphalt joints. (New.).....	9	29	1921	Nov. 24, 1926.
Matthews street (city proper).....	At Federal street. Laid by James Doherty. (Recut.) Grout joints.	10	20	1919	April 29, 1925.
Mayfield street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints..	10	35	1919	Aug. 30, 1924.
Mead street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.	15	50	1919	June 12, 1925.
Medford street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.	21	90	1920	June 12, 1925.
Melville avenue (Dorchester).....	At Dorchester avenue. Laid by Gore, Inc. Asphalt joints. (New.).....	12	51	1921	Nov. 24, 1926.
Mercantile street (city proper).....	South Market street to Clinton street. Laid by Coleman Brothers (New.) Grout joints.	185	620	1918	June 29, 1923.
Mercantile street (city proper).....	Clinton street to Richmond street. Laid by Coleman Brothers. (New.) Grout joints.	360	1,971	1918	June 29, 1923.
Merrimac street (city proper).....	Haymarket square to Portland street. Laid by B. E. Grant Company. (Old.) Grout joints.	578	2,210	1921	June 28, 1926.
Merrimac street (city proper).....	Portland street to 68 feet west of Portland street. Laid by B. E. Grant Com- pany. (Old.) Grout joints.	68	310	1921	June 28, 1926.
Metropolitan avenue (West Roxbury) .	At Washington street. Laid by Gore, Inc. Asphalt joints. (New.).....	8	32	1921	Dec. 12, 1926.
Middlesex street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.	12	30	1919	June 12, 1925.
Mill street (Charlestown).....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.) Grout joints..	11	30	1920	July 8, 1925.
Miller street (Charlestown).....	At Main street. Laid by William J. Barry. (New.) Grout joints.	10	20	1919	June 12, 1925.
Miller street (Charlestown).....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.) Grout joints. ...	9	21	1920	July 8, 1925.
Mishawum street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.	9	25	1919	June 12, 1925.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Mishawum street (Charlestown).....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.) Grout joints.	10	30	1920	July 8, 1925.
Monadnock street (Dorchester).....	At Dudley street. Laid by DeStefano Brothers. (Old.) Grout joints.....	10	42	1920	April 5, 1926.
Monument avenue (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	10	31	1919	June 12, 1925.
Motley street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints...	12	15	1919	Dec. 12, 1924.
Mt. Vernon street (city proper).....	10 feet east of Charles street to Charles street. Laid by B. E. Grant Com- pany. Asphalt joints. (New.)	10	35	1921	Nov. 19, 1926.
Mt. Vernon street (Dorchester).....	Each side Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	22	70	1919	Aug. 30, 1924.
N street (South Boston).....	9 feet north of East Fourth street to East Fourth street. Laid by John E. Quinn. (Recut.) Grout joints.	9	36	1919	May 24, 1925.
Neponset avenue (Dorchester).....	South side Holbrook street to tangent north side Chickatawbut street. (East side and tracks.) Laid by John F. Lynch. (Old.) Gravel base, grout joints.	345	1,147	1917	April 26, 1923.
Neponset avenue (Dorchester).....	Tangent north side Chickatawbut street to 25 feet south of Ashmont street. Laid by John F. Lynch. (Old.) Gravel base, grout joints.	1,336	8,623	1917-18	April 26, 1923.
Newbury street (Roxbury).....	300 feet east of Massachusetts avenue to Massachusetts avenue. Laid by James Doherty. (New.) Grout joints.	300	1,210	1919	Dec. 18, 1924.
New Heath street (Roxbury).....	13 feet east of Columbus avenue to Columbus avenue. Laid by John Kelly Company. (Old.) Grout joints.	13	54	1921	Oct. 13, 1926.
New Heath street (Roxbury).....	Columbus avenue to 13 feet west of Columbus avenue. Laid by John Kelly Company. (Old.) Grout joints.	13	54	1921	Oct. 13, 1926.
North street (city proper).....	Each side of Blackstone street. Laid by Coleman Brothers. (Old.) Grout joints.	24	101	1920	Sept. 9, 1925.

North street (city proper).....	28 feet south of Richmond street to 37 feet north of Richmond street. Laid by B. E. Grant Company. (Old.) Grout joints.	93	362	1921	July 8, 1926.
North street (city proper).....	At Commercial street. Laid by D'Onfro Brothers. (Old.) Grout joints..	10	40	1919	Aug. 13, 1924.
North Anderson street (city proper)...	At Cambridge street. Laid by Central Construction Company. (Recut.) Grout joints.	10	28	1919	Aug. 16, 1924.
Northern avenue (city proper).....	Atlantic avenue to bridge. Laid by Bernard E. Grant. (Old.) Grout joints.	166	1,186	1919	Oct. 3, 1924.
Oak street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	13	42	1919	June 12, 1925.
Oliver street (city proper).....	At Atlantic avenue. Laid by Bernard E. Grant. (Old.) Grout joints.....	32	126	1919	Oct. 3, 1924.
Onida street (city proper).....	13 feet west of Albany street to Albany street. Laid by James Doherty. (New.) Grout joints.	13	29	1920	May 9, 1926.
Oswego street (city proper).....	13 feet west of Albany street to Albany street. Laid by James Doherty. (New.) Grout joints.	13	20	1920	May 9, 1926.
Overland street (Roxbury).....	Brookline avenue to Boston & Albany Railroad. Laid by James F. Coughlin Company. (Now.) Grout joints.	399	1,687	1917-18	Aug. 1, 1923.
P street (South Boston).....	45 feet north of East Fourth street to East Fourth street. Laid by John E. Quinn. (Recut.) Grout joints.	45	132	1920	May 24, 1925.
P street (South Boston).....	East Fourth street to 27 feet south of East Fourth street. Laid by John E. Quinn. (Recut.) Grout joints.	27	109	1920	May 24, 1925.
Paris street (East Boston).....	At Bennington street. Laid by McGuire & McGourty. (Recut.) Grout joints.	124	548	1919	Dec. 13, 1924.
Park street (city proper).....	Beacon street to 152 feet south of Beacon street. Laid by Warren Brothers Company. (New.) Grout joints.	152	728	1918	July 14, 1923.
Park street (city proper).....	39 feet north of Tremont street to 7 feet north of Tremont street. Laid by Warren Brothers Company. (New.) Grout joints.	32	137	1918	July 14, 1923.
Park street (Dorchester).....	Each side of Dorchester avenue. Laid by James Doherty. (New.) Grout joints.	70	251	1918	Dec. 1, 1923.
Parker street (Roxbury).....	At Centre street. Laid by B. E. Grant Company. (Recut.) Grout joints..	10	44	1921	Unfinished.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Parkman street (Dorchester).....	At Dorchester avenue. Laid by Gore, Inc. (New.) Asphalt joints.....	9	90	1921	Nov. 24, 1926.
Pearl street (city proper).....	At Atlantic avenue. Laid by Bernard E. Grant. (Old.) Grout joints....	22	97	1919	Oct. 3, 1924.
Phipps street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	11	12	1919	June 12, 1925.
Pinkney street (city proper).....	10 feet east of Charles street to Charles street. Laid by B. E. Grant Com- pany. (New.) Asphalt joints.	10	26	1921	Nov. 19, 1926.
Pleasant street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	13	31	1919	June 12, 1925.
Poplar street (West Roxbury).....	67 feet north of Washington street to Washington street. Laid by William J. Barry. (New.) Grout joints.	67	310	1920	Dec. 24, 1925.
Poplar street (West Roxbury).....	Washington street to 6 feet south of Washington street. Laid by William J. Barry. (New.) Grout joints.	61	230	1920	Dec. 24, 1925.
Porter street (East Boston).....	Each side of Bremen street. Laid by Coleman Brothers, Inc. (Old.) Gravel base, grout joints.	14	56	1921	July 5, 1926.
Porter street (East Boston).....	At Bennington street. Laid by McGuire & McGourty. (Recut.) Grout joints.	12	48	1919	Dec. 13, 1924.
Portland street (city proper).....	At Hanover street to Causeway street. Laid by B. E. Grant Company. (Old.) Grout joints.	1,693	6,453	1921	June 28, 1926.
Power street (South Boston).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints..	11	33	1919	Aug. 30, 1924.
Prentiss street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints....	12	37	1919	Dec. 12, 1924.
Prescott street (East Boston).....	Bennington street to 8 feet north of Bennington street. Laid by McGuire & McGourty. (Recut.) Grout joints.	8	32	1919	Dec. 13, 1924.
Prescott street (Charlestown).....	At Devens street. Laid by William J. Barry. (Recut.) Grout joints.....	4	8	1919	June 12, 1925.
Prince street (city proper).....	At Commercial street. Laid by Bernard E. Grant. (Old.) Grout joints....	10	25	1919	Nov. 1, 1924.

Public Alley No. 101 (city proper)	At Richmond street. Laid by B. E. Grant Company. (Old.) Grout joints.	8	18	1921	July 8, 1926.
Public Alley No. 710 (city proper)	East Brookline street to West Newton street. Laid by John Landis. (Recut.) Grout joints.	364	566	1920	Nov. 16, 1925.
Public Alley No. 818 (city proper)	St. Stephen street to Public Alley No. 819. Laid by John Landis. (Recut.) Grout joints.	893	790	1920	Nov. 20, 1925.
Public Alley No. 909 (Roxbury)	Massachusetts avenue to Hemenway street. Laid by DeStefano Brothers. (Recut.) Grout joints.	430	386	1921	May 7, 1926.
Putnam street (East Boston)	Each side of Bennington street. Laid by McGuire & McGourty. (Recut.) Grout joints.	18	70	1919	Dec. 13, 1924.
Rawson street (South Boston)	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	11	33	1919	Aug. 30, 1924.
Revere street (city proper)	10 feet east of Charles street to Charles street. Laid by B. E. Grant Company. (New.) Asphalt joints.	10	24	1921	Nov. 19, 1926.
Richmond street (city proper)	Atlantic avenue to Commercial street. Laid by B. E. Grant Company. (Old.) Grout joints.	418	1,585	1921	July 8, 1926.
Richmond street (city proper)	Commercial street to North street. Laid by B. E. Grant Company. (Old.) Grout joints.	514	1,506	1921	July 8, 1926.
Richmond street (city proper)	North street to 9 feet south of Hanover street. Laid by B. E. Grant Company. (Old.) Grout joints.	217	621	1921	July 8, 1926.
Ritchie street (Roxbury)	32 feet east of Centre street to Centre street. Laid by B. E. Grant Company. (Recut.) Grout joints.	32	205	1921	Unfinished.
Rochester street (city proper)	At Albany street. Laid by James Doherty. (New.) Grout joints.	14	33	1920	May 9, 1926.
Romsey street (Dorchester)	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints	10	33	1919	Aug. 30, 1924.
Rosecliff street (Dorchester)	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	.....	51	1919	Aug. 30, 1924.
Rosecliff street (West Roxbury)	At Washington street. Laid by Gore, Incorporated. (New.) Asphalt joints.	8	25	1921	Dec. 12, 1926.
Roxbury street (Roxbury)	At Columbus avenue. Laid by John Kelly Company. (Old.) Grout joints.	9	68	1921	Oct. 13, 1926.
Ruggles street (Roxbury)	20 feet north of Tremont street to Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints.	20	77	1919	Dec. 12, 1924.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.— Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Rutherford avenue (Charlestown).....	6 feet south of Chapman street to Cambridge street. Laid by Coleman Brothers. (Recut.) Grout joints.	3,806	10,653	1920	July 8, 1925.
St. Cecilia street (Roxbury).....	At Boylston street. Laid by James Barry. (Recut.) Grout joints.....	15	44	1919	Aug. 30, 1924.
Salem street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	10	28	1919	June 12, 1925.
Salutation street (city proper).....	At Commercial street. Laid by D'Onfro Brothers. (New.) Grout joints..	6	5	1919	Aug. 13, 1924.
Sarsfield street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints....	12	27	1919	Dec. 12, 1924.
Savin Hill avenue (Dorchester).....	Each side Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	18	118	1919	Aug. 30, 1924.
School street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	11	25	1919	June 12, 1925.
Soneca street (city proper).....	At Albany street. Laid by James Doherty. (Old.) Grout joints.....	13	24	1921	May 9, 1926.
Shepton street (Dorchester).....	At Dorchester avenue. Laid by Gore, Incorporated. (Recut.) Grout joints.	9	28	1921	Nov. 24, 1926.
Shirley street (Roxbury).....	Massachusetts avenue to 473 feet north of Norfolk avenue. Laid by Gore, Incorporated. (Old.) Grout joints.	403	2,179	1919	July 2, 1924.
Somerset street (city proper).....	Beacon street to 18 feet north of Ashburton place. Laid by Warren Brothers Company. (New.) Grout joints.	335	716	1918	July 10, 1923.
South street (West Roxbury).....	125 feet east of Washington street to Washington street. (New)..... Laid by William J. Barry. (Recut.) Grout joints.....	125	331 200	1920	Dec. 24, 1925.
South street (West Roxbury).....	Washington street to 67 feet north of Washington street. Laid by William J. Barry. (New.) Grout joints.	67	354	1920	Dec. 24, 1925.
South Eden street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	15	50	1919	June 12, 1925.
South Eden street (Charlestown).....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.) Grout joints.	10	35	1920	July 8, 1925.
South Market street (city proper).....	At Atlantic avenue. Laid by D'Onfro Brothers. (New.) Grout joints.....	43	190	1918	Jan. 17, 1924.

South Russell street (city proper)	At Cambridge street. Laid by Central Construction Company. (Recut.) Groat joints.	8	16	1919	Aug. 16, 1924.
Southampton street (South Boston)	Dorchester avenue to 109 feet west of Dorchester avenue. Laid by Central Construction Company. (Recut.) Groat joints.	109	1,350	1918	Sept. 5, 1922.
Stacey street (Charlestown)	At Main street. Laid by William J. Barry. (Recut.) Groat joints.	13	20	1919	June 12, 1925.
Stanhope street (city proper)	Berkeley street to 188 feet east of Clarendon street. Laid by Gore, Incorporated. (Old.) Gravel base, groat joints.	420	1,195	1921	Aug. 6, 1926.
Stanhope street (city proper)	188 feet east of Clarendon street to Clarendon street. Laid by Gore, Incorporated. (New.) Groat joints.	188	420	1921	Aug. 6, 1926.
Stanhope street (city proper)	Clarendon street to Trinity place. Laid by Gore, Incorporated. (New.) Groat joints.	267	596	1921	Aug. 6, 1926.
State street (city proper)	8 feet west of Merchants row to 6 feet west of India street. Laid by John E. Quinn. (Old.) Groat joints.	376	1,332	1918	Oct. 1, 1923.
State street (city proper)	6 feet west of India street to 6 feet east of India street. Laid by Bernard E. Grant. (New.) Groat joints.	266	1,247	1917	June 19, 1922.
State street (city proper)	6 feet east of India street to Atlantic avenue. Laid by John E. Quinn. (New.) Groat joints.	609	4,317	1918	Oct. 1, 1923.
Station street (Roxbury)	At Columbus avenue. Laid by Bernard E. Grant. (Recut.) Groat joints.	11	34	1919	Dec. 12, 1924.
Sudan street (Dorchester)	At Dorchester avenue. Laid by William J. Barry. (Recut.) Groat joints. .	10	31	1919	Aug. 30, 1924.
Sudbury square (city proper)	At Sudbury street. Laid by Simpson Brothers Corporation. (New.) Groat joints.	21	76	1918	Sept. 6, 1923.
Sudbury street (city proper)	Court street to Haymarket square. Laid by Simpson Brothers Corporation. (New.) Groat joints.	933	3,435	1918	Sept. 6, 1923.
Sullivan street (Charlestown)	At Main street. Laid by William J. Barry. (Recut.) Groat joints.	12	37	1919	June 12, 1925.
Summer street (city proper)	West side of South street to harbor line, Fort Point channel. Laid by Henry J. Clark. (New.) Groat joints.	1,362	10,129	1917	July 16, 1922.
Summer street (South Boston)	Harbor line to west side of A street. Laid by John McCourt Company. (Old.) Groat joints.	655	5,531	1919	Sept. 17, 1924

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Continued.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Taft street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints,	10	30	1919	Aug. 30, 1924.
Talbot avenue (Dorchester).....	At Dorchester avenue. Laid by Gore, Inc. Asphalt joints. (New,).....	.....	240	1921	Nov. 24, 1926.
Templeton street (Dorchester).....	At Dorchester avenue. Laid by Gore, Inc. (Recut.) Grout joints.....	11	61	1921	Nov. 24, 1926.
Terry street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints...	12	33	1919	Dec. 12, 1924.
Texas street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints...	13	21	1919	Dec. 12, 1924.
Thompson street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	11	22	1919	June 12, 1925.
Thornley street (Dorchester).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	10	33	1919	Aug. 30, 1924.
Tibbetts Town way.....	At Rutherford avenue. Laid by Coleman Brothers. (Recut.) Grout joints,	10	20	1920	July 8, 1925.
Traverse street (city proper).....	9 feet north of Merrihue street to 11 feet south of Portland street. Laid by B. E. Grant Company. (Old.) Grout joints (old base).	48	138	1921	June 28, 1926.
Traverse street (city proper).....	11 feet south of Portland street to Portland street. Laid by B. E. Grant Company. (Old.) Grout joints.	11	34	1921	June 28, 1926.
Traverse street (city proper).....	Portland street to 9 feet north of Portland street. Laid by B. E. Grant Company. (Old.) Grout joints.	9	27	1921	June 28, 1926.
Traverse street (city proper).....	9 feet north of Portland street to 8 feet south of Friend street. Laid by B. E. Grant Company. (Old.) Grout joints. (Old Base.)	140	404	1921	June 28, 1926.
Traverse street (city proper).....	8 feet south of Friend street to Friend street. Laid by B. E. Grant Company. (Old.) Grout joints.	8	24	1921	April 27, 1926.
Traverse street (city proper).....	Friend street to 8 feet north of Friend street. Laid by B. E. Grant Company. (Old.) Grout joints.	8	24	1921	April 27, 1926.
Traverse street (city proper).....	8 feet north of Friend street to 11 feet south of Canal street. Laid by B. E. Grant Company. (Old.) Grout joints. (Old base.)	149	430	1921	April 27, 1926.

Traverse street (city proper).....	11 feet south of Canal street to Canal street. Laid by B. E. Grant Company. (New.) Grout joints.	11	35	1917	July 9, 1922.
Tremont street (city proper).....	21 feet south of north side of Common street to 3 feet north of Broadway. Laid by James Doherty. (New.) Grout joints.	404	1,818	1919	July 15, 1924.
Tremont street (city proper).....	2 feet south of Broadway to east side bridge, Boston & Albany Railroad. Laid by James Doherty. (New.) Grout joints.	738	3,401	1919	July 15, 1924.
Tremont street (city proper).....	2 feet north of Dover street to 9 feet south of north side of Northampton street (including trucks). Laid by B. E. Grant Company. (Recut.) Grout joints.	27	7,337	1920	Sept. 18, 1925.
Tremont street (Roxbury).....	Hammond street, across Vernon street. Laid by Bernard E. Grant. (Recut.) Grout joints.	2,182	14,275	1919	Dec. 12, 1924.
Tremont street (Roxbury).....	Vernon street to 177 feet west of Texas street. Laid by Bernard E. Grant. (Recut.) Grout joints.	1,353	8,490	1919	Dec. 12, 1924.
Tremont street (Roxbury).....	177 feet west of Texas street to 127 feet east of Texas street. Laid by John Kelly Company. (Recut and old.) Grout joints.	266	1,713	1921	Oct. 13, 1926.
Tremont street (Roxbury).....	177 feet west of Texas street to 127 feet east of Texas street. Laid by John Kelly Company. (Old.) Grout joints.	.....	250	1921	Oct. 13, 1926.
Troy street (city proper).....	At Albany street. Laid by James Doherty. (Old.) Grout joints.	13	53	1920	May 9, 1926.
Union street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.	11	36	1919	June 12, 1925.
Virginia street (Dorchester).....	At Dudley street. Laid by DeStefano Brothers. (Old.) Grout joints.	10	29	1920	April 5, 1926.
Walker street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.	12	30	1919	June 12, 1925.
Walpole street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints.	12	33	1919	Dec. 12, 1924.
Warren street (Charlestown).....	At Thompson square. Laid by William J. Barry. (Recut.) Grout joints.	18	60	1919	June 12, 1925.
Warrenton street (city proper).....	10 feet north of Tremont street to Tremont street. Laid by James Doherty. (Recut.) Grout joints.	10	22	1919	July 15, 1924.
Washburn street (South Boston).....	At Dorchester avenue. Laid by William J. Barry. (Recut.) Grout joints.	11	33	1919	Aug. 30, 1924.
Washington street (Brighton).....	22 feet east of Oakland street to 20 feet west of Lake street (south side). Laid by Warren Brothers. (Recut.) Grout joints.	.....	1,682	1919	July 8, 1925.

List of Streets Paved with Granite Blocks Having a Maintenance Guaranty.—Concluded.

STREETS.	Limits.	Length in Feet.	Area, Square Yards.	Year Laid.	Guaranty Expires.
Washington Street North (city proper),	South abutment bridge over Charles River to Causeway street. Laid by Bernard E. Grant. (Old.) Grout joints.	182	1,870	1919	Nov. 1, 1924.
Washington Street North (city proper),	Causeway street to 10 feet north of Causeway street. Laid by Bernard E. Grant. (Old.) Grout joints.	64	690	1919	Nov. 1, 1924.
Washington street (city proper).....	Haymarket square to 24 feet south of Elm street. Laid by Bernard E. Grant. (New.) Grout joints.	76	3,645	1917	Sept. 24, 1922.
Washington street (West Roxbury)....	69 feet west of Corinth street to Denton terrace. Laid by Gore, Inc. Asphalt joints. (New.)	2,151	10,500	1921	Dec. 12, 1926.
Washington street (West Roxbury)....	East side Archdale road to 69 feet west of Corinth street. Laid by William J. Barry. Grout joints.	3,387	10,900 5,659	1920	Dec. 24, 1925.
Washington street (West Roxbury)....	142 feet south of Walk Hill street to east side of Archdale road. Laid by Simpson Brothers Corporation. (New.) Grout joints.	2,765	14,512	1918-19	May 22, 1924.
Welles avenue (Dorchester).....	At Dorchester avenue. Laid by Gore, Inc. (New.) Asphalt joints.....	9	60	1921	Nov. 24, 1926.
West Cedar street (city proper).....	At Cambridge street. Laid by Central Construction Company. (Recut.) Grout joints.	9	25	1919	Aug. 16, 1924.
West Fourth street (South Boston)....	Dorchester avenue to 111 feet east of Dorchester avenue. Laid by Central Construction Company. (Recut.) Grout joints.	111	432	1918	Nov. 9, 1924.
West Fourth street (South Boston)....	10 feet west of Dorchester avenue to Dorchester avenue. Laid by Samuel J. Tomasello. Asphalt joints. (New.)	10	40	1921	Aug. 3, 1926.
Weston street (Roxbury).....	At Tremont street. Laid by Bernard E. Grant. (Recut.) Grout joints..	12	29	1919	Dec. 12, 1924.
Winthrop street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.) Grout joints.....	10	22	1919	June 12, 1925.
Wise street (Roxbury).....	At Centre street. Laid by B. E. Grant Company. (Recut.) Grout joints,	10	30	1921	Unfinished.

Wood street (Charlestown).....	At Main street. Laid by William J. Barry. (Recut.)	Grout joints.....	10	22	1919	June 12, 1925.
Wrentham street (Dorchester).....	At Dorchester avenue. Laid by Gore, Inc. (Recut.)	Grout joints.....	11	50	1921	Nov. 24, 1926.
	SUMMARY.					
	New blocks. Grout joints.....		34,353	176,573		
	New blocks. Asphalt mastic joints.....		2,406	22,711		
	Recut blocks. Grout joints.....		40,084	196,866		
	Old blocks. Grout joints.....		33,101	166,814		
	Old blocks. Asphalt mastic joints.....		118	285		
	Total granite block pavements having a maintenance guaranty.....		110,062	563,249		

Beacon street.....	Dartmouth street to Hereford street....	1909	.....	*	.....	.018	.024	.048	.045	.136	.059	.049
Beacon street.....	Hereford street to Massachusetts avenue,	1907	.....	.....	.....	.....	.....	*	.106	.424	.054	.019
Bennet street.....	Ash street to Harrison avenue.....	1905	.....	.....	.....	*	.479	.090	.....	.163	.805	.....
Berkeley street.....	Boylston street to 155 south of Boylston street.	1902	*	.128	.032	.....	.....	.....	.....	.....	1.647	.....
Blue Hill avenue.....	West side, Dewey street to north side Savin street.	1919	.....	.....	.....	.....	.....	.....	.....	†	.....	.....
Bolton street.....	C street to D street.....	1905	.....	.....	.....	*	.....	.....	.....	.037	.....	.012
Bond street.....	Hanson street to Milford street.....	1895	.049	.040	.082	.....	.....	.013	.....	.008	.....	.213
Boylston street.....	St. Cecilia street to Massachusetts avenue.	1904	.....	.....	*.189	.181	.226	.292	.075	.....	.....	.020
Brattle square.....	Brattle street to Elm street.....	1888-95	.117	.087	.052	.....	.337	.....	.....	.116	.191	.162
Brimmer street.....	Beacon street to Pinckney street.....	1906	.....	.....	.....	.....	*	.202	.192	.341	.010	.025
Bunker Hill street.....	At Tufts street.....	1897	.....	.....	.064	.....	.....	.....	.....	.....	.....	.....
Cabot street.....	Tremont street to Ruggles street.....	1891	.173	.048	.107	.054	.030	.193	.161	.112	.003	.016
Cabot street.....	Ruggles street, easterly side, to Vernon street.	1892	.107	.030	.042	.049	.051	.020	.291	.173	.....	.016
Cabot street.....	Easterly side Vernon street to Linden Park street.	1897	.006	.030	.042	.056	.025	.....	.133	.012	.....	.006
Central street.....	Broad street to Kilby street.....	1911	.....	.....	.....	.....	.....	.....	.239	.....	.097	.011
Chambers street.....	Green street, across Poplar street.....	1902	*	.....	.....	.129	.033	.766	.019	.070	.177	.086
Charles street.....	Southerly side Fruit street to Allen street.	1909	.731	.683	.508	†1.326	†1.304	.428	.450	.669	§.102	.....
Cherry street.....	Shawmut avenue to Washington street,	1892	.82	.....	.270	.....	.099	.....	.028	.072	.....	.118
Columbus avenue.....	134 feet south of Ferdinand street to B. & A. R. R.	1904	.....	.....	*	.396	.157	.237	.206	.208	.261	.215

§ Resurfaced over Bitulithic.

† Repaved.

* Guaranty expired.

Cost of Sheet Asphalt Repairs, 1912-21.—Continued.

STREET.	Limits.	Year Laid.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.
Columbus avenue.....	B. & A. R. R. Bridge to northerly side Camden street.	1907	.....	.....	.....	.....	.....	*.295	.258	.149	.326	.223
Columbus avenue.....	Northerly side Camden street to 67 feet north of Station street.	1907	.....	.....	.....	.....	.....	*.100	.143	.198	.168	.030
Congress square.....	Congress street, across Congress square,	1900	.....	.051	.013	.711	.....	.....	.....	.....	.....	.015
Cooper street.....	North Margin street to Endicott street,	1887	.426	.457	.329	1.232	.592	.511	.197	.086	.231	.500
Cooper street.....	Washington Street North to east side of Endicott street.	1908	.....	.....	.....	.....	.....	.....	*.004	.071	.175	.102
Corey street.....	124 feet north of Moulton street to Moulton street.	1897	.....	.194	.121	.220	.....	.....	1.158	.....	.....	.078
Corning street.....	Washington street to Shawmut avenue,	1908	.....	.....	.....	.....	.....	.....	*	.014	.....	.....
Court square.....	East—South—West.....	{1904-13 1914 }	.....	.....	*	.....	.....	.....	.....	*.039	1.025	.056
Court street.....	Washington street to Court square.....	1904	.....	.027	*.233	.299	.290	.278	.449	.247	†	.....
D street.....	West Fifth street to Gold street.....	1889	.204	.211	.240	.770	.203	.....	.028	.005	.....	.055
Dartmouth street.....	Huntington avenue to Boylston street,	1901	.008	.....	.011	.....	.276	.....	.047	.....	.008	.....
Davis street.....	Washington street to Harrison avenue,	1892	.680	.106	.130	.211	.208	.225	.145	.239	.126	.089
Dearborn street.....	Albany street to 56 feet south of Albany street.	1918	.....	.....	.....	.....	.....	.....	.....	.053	.....	.....
Devonshire street.....	Milk street to Water street.....	1909	.099	.459	.431	1.437	.291	.486	1.619	.616	\$	.....
Devonshire street.....	Milk street to Franklin street.....	1905	.....	.....	.....	*.426	.420	.507	.934	.101	\$	.....
Dillon street.....	Lenox street to Sawyer street.....	1902	*	.010	.....	.068	.....	.....	.....	.083	.....	.006

Doane street.....	Broad street to Kilby street.....	1881	.224	.058	.034	.046	.....	.066	.129	.....	.032	.147
Dorchester street.....	94 feet north of Vinton street to Vinton street.....	1904	.....	.....	.....	.....	.....	.....	.....	.....	.....	.439
E street.....	West Third street to Bolton street.....	1892	.075	.018	.229	.....	.....	.389	.....	.398	.....	.195
E street.....	West Seventh street to West Eighth street.....	1904	.....	.....	*.056	.....	.....	.....	.....	.611	.....	.326
Edinboro street.....	Essex street to Beach street.....	1895	†.229	.....	.....	.....	.....	*	.....	.....	.009	.199
Endicott street.....	Cooper street, across Thacher street....	1899	.163	.278	.087	.027	.194	.174	.376	.355	.028	.300
Eustis street.....	138 feet east of Winslow street to 163 feet west of Albany street.	1906	.....	.....	.....	.....	*	.....	.....	.252	.....	.....
Exchange place.....	Congress street to Kilby street.....	1903	.....	*	.059	.099	.....	.027	.110	.108	.....	.042
Hanover avenue.....	Hanover street to North street.....	1892	.209	.107	.012	.056	.299	.093	.....	.....	.....	.....
Hanover street, west side,	Tilston street, across Charter street....	1907	.....	.....	.....	.....	.....	*	1.358	.330	.025	.360
Harris street.....	Hanover street to North street.....	1904	.....	.....	*	.....	.030	.021	.....	.....	.....	.059
Harrison avenue.....	22 feet south of Kneeland street to 22 feet north of Harvard street.	1899	.189	.211	.320	.170	.113	.389	.456	.247	.226	.267
Harrison avenue.....	Asylum street, across Davis street.....	1901	.327	.150	.305	.886	.253	.....	†	.051	.067	.154
Harrison avenue.....	Northerly side of Decatur street to Gloucester place	1905	.....	.....	.....	*.994	.....	.....	†	.....	.....	.063
Harrison avenue.....	Union Park street to Malden street....	1903	.....	*.193	.060	.637	.181	.275	.066	.200	.038	.051
Harrison avenue.....	Malden street to East Dedham street,	1909	.....	.....	*	.262	.141	.168	.508	.111	.031	.176
Harrison avenue.....	East Newton street to East Springfield street.	1895	.378	.081	.132	.714	.169	.153	.293	.025	.308	.061
Harrison avenue.....	From East Springfield street to 67 feet southerly.	1888	.080	.216	.352	.336	.602	.....	.....	.025	.688	.286

* Guaranty expired.

† Repaved.

‡ Part repaved.

§ Resurfaced over bitulithic.

Cost of Sheet Asphalt Repairs, 1912-21.—Continued.

STREET.	Limits.	Year Laid.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.
Hawes street.....	Congress street to Kilby street.....	1904	.....	.....	*	\$0.050	\$0.089	.....	\$0.162	\$0.019	.....	\$0.213
Hayward place.....	Washington street to Harrison avenue,	1913	.....	.....	.....	.....	.....	.....	*.848	.015	.....	.....
Hollis street.....	Tremont street to Washington street...	1891	\$0.072	\$0.080	\$0.055	.....	.144	\$0.335	†	.009	\$0.031	.....
Hudson street.....	Beach street to Curve street.....	1891	.224	.188	.305	.218	.142	.....	.017	.019	.043	.005
Huntington avenue.....	Boylston street, across Dartmouth street.	1901	.033	.007	.012	.027	.054	.....	.129	.101	.030	.016
Huntington avenue.....	Bridge over Boston & Albany Railroad to 70 feet south of bridge.	1909	.....	.....	*	.050	.....	.....	.369	.....	.....	.....
Huntington avenue, west side.	685 feet north of West Newton street to 38 feet north of West Newton street.	1907	.....	.....	.....	.....	.....	*	.487	.200	.022	.027
I street.....	East Broadway to East Fourth street..	1910	.....	*.001	.003	.....	.....	.....	.....	.....	.....	.009
India street.....	Milk street to India square.....	1917	.....	.....	.....	.....	.....	†	.....	.019	.022	.054
Joiner street.....	Park street to Chelsea street.....	1906	.....	.....	.....	.....	*.310	.661	.500	.....	.229	.122
K street.....	East Fourth street to East Sixth street,	1906	.....	.....	.....	.....	*	.....	.....	.188	.096	.074
Kent street.....	Roxbury street to Vernon street.....	1911	.....	.....	.....	.....	.....	.....	.152	.....	.....	.065
Kilby street.....	Milk street to Central street, including Liberty square.	1898	.028	.012	.019	.558	.057	.134	.446	\$ †	.....	.....
Kilby street.....	Central street, to State street.....	1904	.....	.....	*.293	†	.....	.094	.368	\$ †	.....	.....
Kingston street.....	Beach street to Essex street.....	1910	.....	.....	*	*.316	.341	.400	.291	.050	.244	.017
Kirkland street.....	Pleasant street toward Corning street..	1909	.....	.....	.....	.....	.....	.....	.....	.018	.....	.....
Laconia street.....	Washington street to Harrison avenue..	1917	.117	.048	.075	.059	.065	†	.....	.021	.048	.....
La Grange street.....	Tremont street to Washington street...	1897	.147	.333	.056	.502	.081	.613	.....	.218	.039	†.100
Lincoln place.....	Worcester street to West Springfield street.	1897	.....	.....	.....	.....	.....	.....	.957	.....	.....	.....
Lovering street.....	Washington street to Harrison avenue,	1913	.....	.....	.....	.....	.....	.....	*	.153	.....	.625

Lynn street.....	1906	.....	.....	.....	.....	*	.140	.....	.....	.071	.070
Cooper street to Thacher street.....											
54 feet south of Mt. Vernon street to Chestnut street.....	1892	.....	.666	.....	.....	.086	.....	.....	1.039	.....	.399
Malden street.....	1902	*.004	.034	.026	.....	.079	.137	.082	.028	.079	.....
Mason street.....	1909	.193	.190	.032	.527	.014	.....	.....	.....	.....	.....
Mason street.....		.....	.....	.....	.....	.....	.256	.261	.113	‡.095	.218
Massachusetts avenue..	1910	.....	.....	.....	*	.006	.085	.019	.025	.014	.014
Massachusetts avenue..	1910	.....	.....	.....	*	.004	.034	.006	.026	.005	.017
Massachusetts avenue..	1910	.....	.....	.....	*	.003	.062	.148	.861	.028	.049
Massachusetts avenue..	1909	.....	.....	*.034	.633	.105	.058	.881	.087	.....	.294
Massachusetts avenue..	1914	.....	.....	.....	.....	.....	.....	.....	.....	.011	.143
Morton street.....	1906	.....	.....	.....	.....	*	.....	.....	†	.....	.....
Moulton street.....	1897	.....	.043	.034	.200	.....	.....	.719	.....	.....	.....
Moulton street.....	1897	.....	.044	.029	.099	.....	.....	.....	.....	.....	.054
Norman street.....	1905	.....	.....	.....	*.391	.....	.161	.....	.....	.454	.012
Northampton street....	1905	.....	.....	.....	*	.446	.069	.520	.....	.559	.094
North Bennet street....	1904	.....	.....	*.018	.....	.....	.255	.003	.406	.109	.590
North Margin street....	1895	.085	.105	.045	.090	.111	.120	.010	.174	.140	.253
Oswego street.....	1920	.....	.....	.....	.....	.....	.....	.....	†	.....	.011
Oxford street.....	1917	.....	.....	.....	.....	.....	†	.....	.008	.....	‡1.105
Palmer street.....	1906	.....	.....	.....	.....	*	.....	.709	.092	.....	.072
Parkman street.....	1898	0.013	0.058	0.069	0.623	.....	0.087	0.039	0.829	0.256	0.053.

* Guaranty expired.

† Repaved.

‡ Part repaved.

Cost of Sheet Asphalt Repairs, 1912-21.—Concluded.

STREETS.	Limits.	Year Laid.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.
Parmenter street.....	Hanover street to Salem street.....	1902	*\$0.006	\$0.213	\$0.154	\$0.531	\$0.264	\$0.346	\$0.230	\$0.173	\$0.121	\$0.336
Panell street.....	Lenox street to Sawyer street.....	1902	*	.....	.....	.008	.....	.....	.....	.003	*	.003
Peacevale road.....	Norfolk street to Dunbar avenue.....	1915	.....	.....	.....	.....	.....	.....	.....	.....	.024	.073
Pelham street.....	Washington street to Shawmut avenue,	1917	.....	.....	.....	.....	.....	†	.....	.....	.....	.....
Pinckney street.....	Charles street, across Brimmer street..	1895	.036	.056	.096	.175	.040	.123	.180	.127	.175	†.378
Pine street.....	Washington street to Harrison avenue,	1896	.142	.031	.....	.077	.262	.057	.....	.478	.016	.276
River street.....	Beacon street to Mt. Vernon street....	1912	.....	.....	.....	.....	.....	*	.075	.....	.033	.182
Rochester street.....	Harrison avenue to Albany street.....	1914	.....	.....	.....	.....	.....	.....	.....	*.004	.030	.074
Rogers street.....	Dorchester street to Preble street.....	1891	.....	.....	.068	.....	.....	.....	.....	.....	.....	†
Roxbury street.....	Guild row to Washington street.....	1904	.....	.....	*.024	.117	.....	.144	.....	.438	.....	.095
Ruggles street.....	Shawmut avenue to Cabot street.....	1907	.....	.....	.....	.....	.....	*	.483	.164	.064	.014
Salutation street.....	Hanover street to Commercial street...	1905	.....	.....	.....	*	.....	.....	.....	.345	.....	.424
Shawmut avenue.....	132 feet south of Castle street, across Cherry street.	1915	.....	.....	.....	†	.002	.007	.022	.067	.046	.094
South Margin street.....	Stanford street, across Norman street,	1905	.....	.....	.....	*.374	.....	.417	.....	.....	.242	.....
Stoddard street.....	Howard street to Court street.....	1892	.023	.076	.006	.....	.543	.....	.....	.....	.388	.....
Temple place.....	Washington street to Tremont street...	1900	.086	.183	.268	.504	.025	.341	.313	.131	.036	.069
Thacher street.....	Washington Street North to Endicott street.	1892	†.127	.453	.093	.469	.214	†	.....	.081	.052	.156
Tileston street.....	Hanover street, across Unity street.....	1905	.....	.....	.....	*	.....	.103	.108	.232	.....	.477
Tileston street.....	Unity street to Salem street.....	{1895} {1900}	.385	.206	.057	.243	.....	.103	.108	.200	.571	.....

Trinity place.....	1907	.136	.004	.069	.....	.....	.003	.060	.....	†
Tufts street.....	1897	.035	.042	.....	.....	.....	.210	.....	.025	.018
Union Park street.....	1913	†	.....	.....	.....	.....	*	.....	†	.....
Unity street.....	1897	.390	.078	.249	.284	.100	.100	.286	.139	.211
Vernon street.....	1907	.....	.....	.....	.....	*	.301	.051	.012	.023
Vine street.....	1897	.049	.010	.....	.....	.....	.046	.....	.047	.027
Warren street.....	1917	.....	.....	.....	.....	†	.350	1.055	.528	.552
Warrenton street.....	{1884} {1891}	.059	.063	.329	.049	.....	.244	.007	.032	.129
Warrenton street.....	1891	.008	.125	.050	.025	.....	.138	.003	.....	.398
Washington street.....	1904	.....	*	.....	.....	.....	.....	.....	.019	.....
Washington Street North.	1899	.154	.098	.405	.246	.005	.918	.282	.612	.216
Water street.....	1902	*	.014	.026	.155	.....	.003	.....	.008	†1.173
Water street.....	1896	.070	.017	.....	.051	.027	.009	.009	.....	.211
West Broadway.....	1919	.....	.....	.....	.....	.....	.....	†	.....	.032
West Sixth street.....	1905	.....	.....	*	.084	.....	.....	.247	.....	.132
West Third street.....	1892	.016	.067	.174	.020	.....	.....	.185	.....	.085
Wheeler street.....	1909	.....	*	.....	.022	.....	.....	.099	.....	.022
Whitfield street.....	1914	.....	.....	.....	.....	.....	.....	*	.....	.005
Wiget street.....	1897	.159	.029	.066	.010	.070	.....	1.019	.....	.027
Wiggin street.....	1905	.....	.....	*	.....	.091	.062	.....	.393	.926

* Guaranty expired.

† Repaved.

† Partly repaved.

Sheet Asphalt.

With 1½-Inch Wearing Surface and 1½-Inch Binder on a Granite Block, Cobble, or Macadam Base.

STREETS.	Limits.	Year Laid.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.
Albany street.....	Hampden street to Eustis street.....	1918§	.....	.....	.....	.....	.....	.....	.....	.....	\$0.252	\$0.41
Allen street.....	Charles street to Blossom street.....	1917§	.....	.....	.....	.....	.....	.....	.....	.....	.025	.026
Batterymarch street.....	Milk street to 93 feet west of Broad street.	1909	.....	.....	*	\$0.005	\$0.131	\$0.089	\$0.047	\$0.030	.045	.060
Blue Hill avenue.....	Dewey street to north side of Savin street, East side.	1917§	.....	.....	.....	.....	*	†	.....	.456	.....	.148
Brighton street.....	Leverett street to Allen street.....	1892	\$0.327	\$0.271	\$0.123	.341	.214	.298	.010	.378	.390	.132
Chambers street.....	Charles street to Brighton street.....	1895	.116	.154	.131	.361	.006	.083	.....	.160	.286	.026
Charter street.....	Hanover street across Unity street.....	1894	.388	.255	.145	.628	.222	.079	.087	.456	.252	.200
Clark street.....	Hanover street to North street.....	1892	.223	.207	.219	.352	.391	.229	.466	.422	.079	.132
Dearborn street.....	Albany street to 56 feet southerly.....	1918§	.....	.....	.....	.....	.....	*	*	†	.....	.....
Florence street.....	Washington street to Harrison avenue..	1917§	.....	.....	.....	.....	.....	*	†	.....	.....	.025
Groton street.....	Washington street to Shawmut avenue,	1892	.079	.031	.061	.144	.194	.360	.191	.088	.....	.117
Moon street.....	North square to Lewis street.....	1891	.248	.073	.071	.....	.132	.....	1.131	.....	.....	.....
Oxford street.....	Beach street to Essex street.....	1895	.247	.182	.088	.248	.013	†	.....	.....	.....	.....
Parker street.....	Caldwell street to Ward street.....	1917	.....	.....	.....	.....	.....	.....	.....	.131	.....	.....
Poplar street.....	Chambers street to Charles street.....	{1887} {1892}	.172	.102	.109	.382	.157	.236	.014	.400	.344	.073
Rose street.....	Harrison avenue to Albany street.....	1917	.....	.....	.....	.....	.....	.....	.....	.040	.737	.094
Smith street.....	St. Alphonsus street to Phillips street...	1917§	.....	.....	.....	.....	.....	†	.....	.....	.012	.....
Spring street.....	Poplar street to Leverett street.....	1895	.160	.183	.128	.454	.422	.093	.066	.582	.677	.248
Sun Court street.....	North square to Moon street.....	{1891} {1892}	.190	.119	.043	.....	.139	.....	1.150	.071	.....	.456
Stillman street.....	Endicott street across Norman street...	1892	.041	.286	.157	.061	.159	.033	1.648	.179	.....	1.075
Tyler street.....	Beach street to Harvard street and Oak street to Curve street.	1917§	.....	.....	.....	*	.....	†	.026	.034	.019	.058

* Guaranty expired.

† Repaved.

‡ Part repaved.

§ Resurfaced over bitulithic.

Rock Asphalt.

With 2-Inch Wearing Surface on a Cement Concrete Base.

STREETS.	Limits.	Year Laid.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.
Acton street.....	Washington street to Bradford street...	1896	\$0.241	\$0.037	\$0.037	\$0.036	.....	.....	.....	\$0.170	.....	\$0.196
Arch street.....	Summer street to Franklin street.....	1901	.028	.005	.207	†	.....	.....	.....	.....	.....	.....
Athens street.....	West Second street to A street.....	1895	.102	.....	.031	.056	.....	.....	.....	.061	.....	.052
Athens street.....	B street to C street.....	1892	.059	.....	.....	.121	.....	.....	.....	.034	.....	.086
Athens street.....	C street to D street.....	1901	.172	.....	.....	.226	.....	.....	.....	.033	.....	.049
Avery street.....	Mason street to Washington street.....	1897	.144	.....	†	.....	.....	.....	.....	.....	.....	.....
Barton street.....	Leverett street to Milton street.....	1895	.054	.084	.011	.661	.....	\$0.099	.....	.475	\$0.138	.249
Beacon street.....	Arlington street to Dartmouth street..	1901	.039	.072	.072	.058	\$0.041	.059	\$0.092	.228	.086	.046
Bowen street.....	C street to E street.....	1901	.125	.002	.021	.115	.036	.....	.....	.048	.....	.038
Bradford street.....	Waltham street to Shawmut avenue....	1897	.034	.011	.031	.033	.140	.....	.....	.067	.....	.176
Cobb street.....	Washington street to Shawmut avenue,	1897	.032	.....	.024	.....	.....	.....	.017	.031	.....	.....
Decatur street.....	Washington street to Harrison avenue,	1892	.283	.187	.127	.064	.449	.519	.184	.223	.127	.242
Dudley street, east side.	East side Dunmore street to Magazine street	1902	*	.091	.114	.....	.138	.....	.....	.488	.....	.014
Dwight street.....	Shawmut avenue to Tremont street....	1893	.050	.280	.043	.001	.066	.008	.....	.083	.....	.218
Essex place.....	Tufts street to Essex street.....	1901	.057	.038	.141	.020	.367	.086	.297	.....	.007	.302
Exeter place.....	Chauncy street to Harrison avenue.....	1897	.045	.025	.....	.031	.052	.....	.364	.....	.....	.195

† Repaved.

* Guaranty expired.

Meridian street.....	1900	.169	.....	.....	.652	.....	.....	.....	1.080	.....
Miller street.....	1901	.231	.027	.....	.032	.....	.170	.....	.861	.007
Milton street.....	1899	.068	.....	.099	.....	.063	.....	.054	.....	.092
Motte street.....	1892-99	.069	.138	.....	.175	.....	.042	.403	.....	.420
Mystic street.....	1895	.006	.072	.011	.....	.....	.....	.....	.030	.022
Newland street.....	1902	*	.061	.014	.....	.....	.....	.....	.....	.384
North Margin street. . .	1897	.085	.021	.053	.....	.034	.132	.172	.153	.231
Norwich street.....	1896	.....	.043	.024	.....	.008	.....	.....	.464	.....
Ohio street.....	1896	.254	.....	.119	.....	.....	.....	.260	.....	.439
Oswego street.....	1899	.075	.010	.082	.025	.050	.....	.153	.009	†
Otter street.....	1901	.016	.003	.015	.....	.003	.....	.....	.....	.....
Paul street.....	1897-99	.054	.043	.082	.....	.219	.347	.021	.111	.057
Pelham street.....	1897	.193	.105	.290	.145	.....	†	.....	.....	.....
Pemberton square.....	1894	.....	.....	.006	.....	.....	.002	.032	.....	.083
Prince street.....	1895	.225	.409	.189	.314	.298	.283	.307	.247	.389
Ryan street.....	1896	.....	.089	.039	.....	.088	.....	.....	.....	.016
Salem street.....	1901-13	.181	.045	.145	.304	.408	.124	.244	.176	.412
Shawmut avenue.....	1898	.504	.114	.214	†	.....	.....	.....	.....	.....
Silver street.....	1901	.193	.....	.047	.033	.008	.....	.190	.....	.157
Taylor street.....	1896	.046	.024	.069	.....	.061	.....	.031	.025	.199
Tudor street.....	1901	.193	.....	.008	.....	.....	.....	.059	.....	.031

* Guaranty expired

† Repaved.

Rock Asphalt.—Concluded.

STREETS.	Limits.	Year Laid.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.
Tufts street.....	Kingston street to South street.....	1901	\$0.033	\$0.029	\$0.018	\$0.117	\$0.127	\$0.353	\$0.104	\$0.039	\$0.021	\$0.157
Tyler street.....	Oak street to Harvard street.....	1901	.180	.099	.102	.178	.279	.207	.422	.028	.482	.132
Warren street.....	Winthrop street across Soley street....	1901	.293	.543	.517	.663	.626	*	.....	.....	.....	.....
Waterford street.....	Washington street to Shawmut avenue	1897	.168	.....	.190	.....	.....	.....	.614	.248	.....	.224
West Broadway.....	196 feet east of Dorchester avenue to A street.	1892	.105	.271	.307	.559	.495	.656	.119	*	.....	.....
West Broadway.....	150 feet west of F street to 267 feet east of F street.	1897	.099	.059	.121	.145	.....	.....	.....	.408	.173	.149
West Broadway.....	267 feet west of F street to 28 feet west of Dorchester street.	1898	.022	.082	.132	.021	.319	.117	.....	.283	.....	.....
Whitmore street.....	Kneeland street to Harvard street.....	1895	.055	.035	.....	.....	.038	.....	.....	.300	.....	.413

*Repaved.

Summary of Table Showing the Cost of Asphalt Repairs, 1912-21.

YEAR.	Contract Awarded to	CONTRACT PRICES.			AREAS AND COSTS.			
		Asphalt Surface and Binder per Square Yard.	Concrete Base per Square Yard.	Extra Binder per Cubic Yard.	Total Area Not Under Guaranty Maintained by the Public Works Department, Square Yards.	Cost of Maintenance for Current Year.	Unit Area Repaired.	Unit Cost per Square Yard.
1912.....	Warren Brothers Company *	\$1 24	\$1 10	\$11 00	223,848	\$26,397 97	.0933	118
1913.....	Warren Brothers Company *	1 37	1 15	11 00	226,837	22,839 01	.0729	101
1914.....	Central Construction Company *	1 19	1 00	11 00	237,204	23,384 52	.0821	.099
1915.....	Central Construction Company *	1 06	1 00	11 00	238,545	40,633 82	.1550	170
1916.....	Central Construction Company *	1 16	2 50	4 00	280,268	25,941 25	.0796	.093
1917.....	Central Construction Company *	1 37	2 50	12 00	299,822	29,883 29 838 44	.0729	102
1917.....	Warren Brothers Company †.....							
1918.....	The Bermudez Company *	1 38	3 50	12 00	312,523	50,198 58	.1080	161
1919.....	Central Construction Company *	1 83	2 00	8 00	312,816	40,147 81	.0700	128
1920.....	The Bermudez Company *	2 20	3 50	14 00	340,713	39,275 77	.0489	115
1921.....	Rowe Contracting Company.....	2 10	2 25	14 00	410,614	29,857 40	.0337	.073

* Advertised and awarded to lowest bidder.

† By agreement.

Two-inch Bituminous Concrete Wearing Surface on a Cement Concrete Base.

STREETS.	Limits.	Year Laid.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.
Avery street.....	Tremont street to Washington street...	1914	.....	.....	.....	.....	.....	.....	.....	*	.076	.009
Blagden street.....	Huntington avenue to Exeter street. . . .	1912	.....	.....	.....	.....	.....	*	.219	\$0.189	.137	.....
Boylston street.....	East side of Exeter street to Hereford street.	1913-14	.....	.....	.....	.....	.....	.....	*	*	.267	.021
Browning avenue.	Bernard street to Wales street.	1914	.....	.....	.....	.....	.....	.....	.....	*	.052	.058
Centre street.....	Green street to 14 feet west of Eliot street.	1913	.....	.....	.....	.....	.....	.....	*	.....	.033	.052
Claybourne street.....	187 feet south of Dakota street to Park street.	1915	.....	.....	.....	.....	.....	.....	.....	.....	*.006	.....
Columbus square.....	Columbus avenue to Pembroke street..	1912	.....	.....	.....	.....	.....	*	.....	.185	.....	.....
Dartmouth street	Stuart street across Huntington avenue,	1912	.....	.....	.....	.....	.....	*	.009	.003	.130	.039
Dorchester street.	8 feet north of Rodgers street to 154 feet north of Dorchester avenue.	1914	.....	.....	.....	.....	.....	.....	.....	*	.....	.411
Exeter street.....	Huntington avenue to Boylston street,	1914	.....	.....	.....	.....	.....	.....	.....	*	.037	.....
Harvard avenue.....	Cambridge street to Commonwealth avenue.	1914	.....	.....	.....	.....	.....	.....	.....	*	.010	.031
Marlborough street.	Massachusetts avenue to Charlesgate East.	1914	.....	.....	.....	.....	.....	.....	.....	*	.003	.....
Massachusetts avenue. . .	Tremont street to Columbus avenue, north roadway.	1907	.....	.....	.....	.....	.....	*	.....	.....	.004	.004
Norfolk street.	Talbot avenue to bridge over the Midland Division, N. Y., N. H. & H. R. R.	1914	.....	.....	.....	.....	.....	.....	.....	*	.036	.046
St. James avenue.	Clarendon street to Huntington avenue,	1914	.....	.....	.....	.....	.....	.....	.....	*.051	.228	.048

South street.....	North side of Jamaica street to north side of Keyes street.	1913	.....	.....	.....	.....	.963	.119
Spring street.....	Allen street to Poplar street.....	1913	.....	.....	.....	.....	.187	.013
Station street.....	Columbus avenue to Parker street....	1914	.....	.....	.....	.....	*	.079
Trinity place.....	St. James avenue across Stuart street..	1912	.....	.....	.....	*	.012	.006
Washington street.....	Cambridge street to 126 feet west of Chestnut Hill avenue.	1913	.....	.....	.....	.....	.125	.032
Winter street.....	Washington street to Tremont street...	1913	.....	.....	.....	.....	.080	.343
Zeigler street.....	Warren street to Dearborn street.....	1914	.....	.....	.....	.....	* .013	.028

* Guaranty expired.

Two-inch Bituminous Concrete Wearing Surface on a Crushed Stone, Macadam or Granite Block Base.

STREETS.	Limits.	Year Laid.	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.
Allen street.....	Blossom street to Chambers street.....	1905	.....	.....	.....	*	.....	\$0.017	.....	\$0.253	\$0.030	\$0.123
Ashburton place.....	Bowdoin street to Somerset street.....	1911	.....	.....	*	.....	.....	.023	.....	.....	.....	.622
Belvidere street.....	West Newton street to Massachusetts avenue.	1903	.....	*\$0.078	\$0.034	\$0.768	.....	.004	.....	.011	.064	.025
Berkeley street.....	Trenont street to Columbus avenue....	1906	.....	.....	.....	.....	*	.....	\$0.365	.328	.473	.....
Berkeley street.....	Boylston street to Beacon street.....	1903	.....	*.005	.001	.005	.....	.025	.....	.....	.222	.472
Blue Hill avenue.....	Brunswick street to north side of Devon street.	1906	.....	.....	.....	.....	*	.....	.....	1.268	.....	.....
Bowdoin street.....	Ashburton place to Cambridge street....	1902	*	.164	.075	.219	.....	.016	.....	.....	.090	.602
Bowen street.....	E street to F street.....	1903	.....	*	.....	.....	.....	.....	.....	.023	.....	.....
Boylston street.....	Massachusetts avenue across Hemen- way street.	1905	.....	.....	.....	*	.....	.654	.370	.299	.429	.021
Clarendon street.....	Boylston street to Beacon street.....	1905	.....	.....	.....	*.011	.....	.003	.....	.....	.192	.012
Dartmouth street.....	Newbury street to Beacon street.....	1903	.....	*	.001	.049	.....	.....	.....	.....	.016	.127
E street.....	West Broadway across East Fourth street.	1903	.....	*	.....	.....	.....	.....	.....	.....	.....	.597
Emerald street.....	Castle street to Dover street.....	1904	.....	.....	*.004	.005	.....	.....	.178	.....	.015	.023
Gainsborough street.....	Huntington avenue to Providence Divi- sion N. Y., N. H. & H. R. R.	1903	.....	*	.032	.....	.....	.....	1.067	.....	.....	.042
Garden Court street.....	North Square to Fleet street.....	1906	.....	.....	.....	.....	*	.090	.....	.611	.....	.....
Hancock street.....	Mt. Vernon street to Cambridge street,	1902	*	.009	.027	.167	.....	.001	.....	.....	.012	.016
Harrison avenue.....	East Springfield street to Northampton street.	1905	.....	.....	.....	*	\$0.279	.779	.253	.420	.215	.....

Huntington avenue	Dartmouth street to 84 feet north of E. & A. R.R. bridge.	1906	. . . . .	. . . . .	*	. . . . .	.042	.286	.307	.061	.116
McLean street	Blossom street to Chambers street	1905	. . . . .	. . . . .	*	. . . . .	.025	. . . . .	.532	.019	.058
Massachusetts avenue	Columbus avenue to Huntington avenue	1903	. . . . .	* .094	.834	.092	.087	.269	1.488	.070	.011
Massachusetts avenue	Beacon street to Harvard Bridge	1902	. . . . .	* .300	.843	.127	.053	.136	. . . . .	.250	.018
Maverick street	London street to Havre street	1903	. . . . .	* .013	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	.292	. . . . .
Moon street	Lewis street to Fleet street	1906	. . . . .	. . . . .	*	. . . . .	.072	. . . . .	. . . . .	. . . . .	.826
North square	North street to Moon street	1906	. . . . .	. . . . .	*	. . . . .	.054	.046	.433	. . . . .	.305
Oneida street	Harrison avenue to Albany street	1903	. . . . .	* . . . .	.038	.005	.123	.003	.282	.067	.366
Prince street	Garden Court street to Hanover street	1906	. . . . .	. . . . .	*	. . . . .	.272	. . . . .	1.025	. . . . .	.981
Roxbury street	Shawmut avenue to Kent street	1904	. . . . .	* .005	. . . . .	. . . . .	. . . . .	. . . . .	.005	.252	. . . . .
St. Alphonsus street	Tremont street to Smith street	1905	. . . . .	. . . . .	*	. . . . .	.091	. . . . .	.007	.379	. . . . .
Smith street	St. Alphonsus street to Phillips street	1904	. . . . .	* .040	. . . . .	. . . . .	†	. . . . .	. . . . .	. . . . .	. . . . .
Thomas Park	Around Telegraph Hill	1905	. . . . .	. . . . .	*	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	.002
Tremont street	St. Alphonsus street to Phillips street	1902	* . . . .	.042	.018	. . . . .	.337	. . . . .	.009	.067	. . . . .
West Broadway	28 feet west of Dorchester street to Dorchester street.	1905	. . . . .	. . . . .	*	. . . . .	. . . . .	. . . . .	1.085	. . . . .	. . . . .
West Fourth street	E street to 297 feet west of E street	1903	. . . . .	*	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	.997
West Newton street	Columbus avenue to Huntington avenue	1903	. . . . .	* .014	.008	.062	†	. . . . .	. . . . .	.001	.003
West Newton street	Huntington avenue to Belvidere street	1903	. . . . .	* .014	.653	.046	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
West Newton street	Tremont street to Columbus avenue	1904	. . . . .	. . . . .	.100	* .003	. . . . .	.376	.004	.075	. . . . .

† Repaved.

* Guaranty expired.

Summary of Table Showing Cost of Bituminous Concrete Repairs, 1913-21.

YEAR.	Contract Awarded to	CONTRACT PRICES.					AREAS AND COST.			
		Bituminous Concrete Full Depth Patches per Square Yard.	Bituminous Concrete Surface Patches per Square Yard.	Concrete Base per Square Yard	Extra Binder per Cubic Yard.	Flush Coat per Square Yard.	Total Area Not Under Guaranty Maintained by the Public Works Department. Square Yards.	Cost of Maintenance for Current Year.	Unit Area Repaired.	Unit Cost per Square Yard.
1913.....	Warren Brothers Co.*.....	\$1 37	† \$0 80	\$1 15	\$11 00	.....	40,888	\$1,625 60	.0309	\$0.040
1914.....	Central Construction Co.*.....	1 09	52	1 00	11 00	† \$0 07	62,315	1,417 89	.0531	.023
1915.....	Central Construction Co.*.....	1 06	50	1 00	11 00	† 07	83,473	10,396 54	.1685	.125
1916.....	Central Construction Co.*.....	1 11	50	2 50	4 00	.....	98,298	1,666 65	.0129	.018
1917.....	Central Construction Co.*.....	1 37	77	2 50	12 00	.....	103,973	{ 1,335 99 } 2,382 04	.0304	.036
1917.....	Warren Brothers Co.†.....									
1918.....	The Bermudez Co.*.....	1 38	60	3 50	12 00	.....	122,814	16,244 76	.1007	.132
1919.....	Central Construction Co.*.....	1 83	1 20	2 00	8 00	.....	190,150	{ 13,767 77 } 1,220 47	.0469	.079
1919.....	Warren Brothers Co.†.....	1 85	.....	.....	.....	.....
1920.....	The Bermudez Co.*.....	2 20	1 62	3 50	14 00	† 20	227,437	14,334 27	.0288	.063
1921.....	Rowe Contracting Co.....	2 10	1 00	2 25	14 00	.....	249,259	10,995 99	.0332	.044

† By agreement.

* Advertised and awarded to lowest bidder.

APPENDIX D.

REPORT OF THE DIVISION ENGINEER OF THE
SEWER AND SANITARY DIVISION.

BOSTON, February 1, 1922.

MR. THOMAS F. SULLIVAN,
Commissioner of Public Works:

DEAR SIR,—I submit herewith a statement of the activities, operations and expenditures of the various Services of the Sewer and Sanitary Division for the year ending January 31, 1922. The maintenance expenditures of the Sewer and Sanitary Division for the year were as follows:

Sewer Service	\$607,043 15
Sanitary Service	1,536,633 27
Street Cleaning and Oiling Service	916,061 41
Total	<u>\$3,059,737 83</u>

SEWER SERVICE.

During the year 1921-22 there were built throughout the city 7.08 miles of sanitary sewers and surface drains.

There were 7,196 catch-basins and 101 inlets cleaned and a total of 28,722.87 cubic yards of material removed.

In the city proper district the principal work was that of replacing the old wooden sewer in Chatham street, between Commercial street and Merchants row, with a reinforced concrete sewer, thereby removing a long-standing cause of complaint in the past.

In Roxbury the most important work was that of completing the rebuilding of Muddy river conduit in Brookline avenue and the building of sanitary sewers in Alleghany street, Bickford street, Peabody street and Townsend street.

In South Boston the extension of East First street overflow in Farragut road and the building of a sewer and surface drain in East Second street will relieve the floodings in the vicinity of First street and P street at Second street.

In Charlestown 918.57 feet of pipe sewers and surface drains were built, the principal work being that of building sewer, catch-basins, etc., in Chelsea street between Henley street and Chestnut street in advance of the widening and paving.

The most important construction work in the East Boston district was that of the extension of the Lubec street outlet, where 402 linear feet of 6-foot 9-inch reinforced conduit was built.

In the Dorchester district the principal work was that of the extension of the Davenport brook for a distance of about 510 feet which has been repeatedly called for by the adjoining property owners.

In Hyde Park the work was principally that of the extension of sanitary sewers.

In the Brighton district pipe sewers were built in Melton road, Imrie road, Parker avenue, Allston Heights and North Beacon street. Work has been started on the Faneuil Valley brook conduit by building stop plank manholes to allow the proper cleaning of this conduit.

In West Roxbury the most important work was the completion of section 10 of Stony brook new Toll Gate road consisting of 270 linear feet of 17-foot by 13-foot 9-inch reinforced concrete conduit, and the start on the covered channel for Roslindale Branch of Stony brook where there was built 875 linear feet of a 10-foot 9-inch concrete conduit to relieve the floodings in the vicinity of Firth road, Bexley road and Murray Hill road. A start was also made on the Glendale road outlet between Metropolitan sewer and North avenue to provide a sanitary sewer outlet for a large area in the vicinity of Baker street, Elmwood street, Centre street and Grove street.

SANITARY SERVICE.

The committee appointed by his Honor the Mayor after a thorough investigation of the methods of the disposal of ashes, rubbish, garbage, etc., in other large cities of the United States, decided upon a method of disposal for Boston, and after bids were received recommended that the award be given to the lowest bidder, Coleman Brothers, at a cost of \$3,795,000 for a ten-year period beginning July 1, 1922. This was later approved by the City Council and by his Honor the Mayor.

This contract does not include the garbage disposal for four outlying districts, as at the present time this

garbage is collected by contract and sold to farmers for hog feeding. Studies should be made as to improved methods of collection and as to more frequent collections.

STREET CLEANING SERVICE.

The duties of this service, to keep the streets and alleys free from filth, dirt, etc., are in my estimation one of the most important functions of the Public Works Department. The paving program, with its extension of smooth pavements, puts a greater burden on this service and an increase in equipment and men should be considered seriously. The continuation of the car sprinkler and motor-driven flushers have again proven of great value and have met the test of time in a most satisfactory manner. A new Elgin motor-driven pick-up machine has been purchased, making a total of three in this service at the present time.

Yours respectfully,

E. F. MURPHY,

Division Engineer, Sewer and Sanitary Division.

SEWER SERVICE.

The work of the Sewer Service is carried on under chapters 28 and 40, Revised Ordinances of 1914, and the following statutes:

Chapter 426, 1897, as amended by 450, 1899, and 268, 1903.
 Chapter 383, 1903, as amended by 464, 1907.
 Chapter 550, 1907.
 Chapter 204, 1908.
 Chapter 514, 1908.
 Chapter 74, Special Acts, 1918.

THE DUTIES OF THE SEWER SERVICE.

1. Preparation of plans for sewerage works.
2. Construction and maintenance of all drainage works.
3. Investigation of complaints in regard to defective drainage.
4. The granting of permits for sewer construction.
5. The preparation of plans for the assessment of the cost of sewer construction.
6. The examination of the plans of other corporations proposing to construct works in public streets with reference to their probable interference with sewerage works.

Total number of employees on pay roll January 31, 1921	333
Total number of employees on pay roll January 31, 1922	326
Total amount of weekly pay roll January 31, 1921	\$9,581 49
Total amount of weekly pay roll January 31, 1922	\$9,906 11
Total amount of monthly pay roll January 31, 1921	\$416 00
Total amount of monthly pay roll January 31, 1922	\$416 67
Total amount of monthly pension roll January 31, 1921:	
Veterans	\$501 80
Laborers	\$571 13

Total amount of monthly pension roll January
31, 1922:

Veterans	\$553 80
Laborers	\$541 13

Average weekly pay roll, including monthly roll
but exclusive of pension rolls for the fiscal
year charged as follows:

Maintenance	* \$6,623 10
Sewerage works	\$3,693 67

Average number of men employed	338
--	-----

Number of men on pension roll January 31, 1921:

Veterans	11
Laborers	19

Number of men on pension roll January 31, 1922:

Veterans	12
Laborers	18

Average number of horses maintained by the
service during the year

28

Rate of wages paid to common laborers	\$4 00
---	--------

* Includes amount charged to

Paving Service	\$2,089 36
Sanitary Service	856 88
Street Cleaning and Oiling Service	455 50
Water Service	91 52
High Pressure Fire Service	217 80
Sea Wall, etc., Roxbury Canal	18 63

Financial Statement from February 1, 1921, to January 31, 1922.

Object.	Balances on Hand Feb. 1, 1921.	Appropriations, Loans and Transfers.	Transfers to.	Transfers from.	Total Credits.	Expenditures During the Year.	Balances on Hand Jan. 31, 1922.
Sewer Service.....	.....	\$607,430 67	.....	.....	\$607,430 67	\$607,043 15	\$387 52
Sewerage works.....	\$295,615 71	1,000,000 00	.....	.....	1,295,615 71	974,138 27	321,477 44
Old Harbor improvement.....	90,033 83	.....	.....	.....	90,033 83	* 58,852 93	31,180 90
Totals.....	\$385,649 54	\$1,607,430 67	.....	.....	\$1,993,080 21	\$1,640,034 35	\$353,045 86

* \$13,767.34 expended by Bridge Service.

MAINTENANCE EXPENDITURES FEBRUARY 1, 1921, TO
JANUARY 31, 1922.

SEWER SERVICE.

Improved Sewerage.

Pumping Station, Calf Pasture, inside	\$139,986 33
Pumping Station, Calf Pasture, outside	25,831 01
Pumping Station, Calf Pasture, engines	52,768 60
Pumping Station, Calf Pasture, boilers	36,831 20
Pumping Station, Union Park street	12,409 46
Pumping Station, Summer street	1,369 33
Pumping Station, Hyde Park	1,077 57
	<hr/>
Moon Island	\$270,273 50
Main and intercepting sewers	19,232 25
	<hr/>
	\$304,453 78

Stony Brook.

Maintenance	3,978 63
-----------------------	----------

Miscellaneous Maintenance Charges.

Cleaning catch-basins	109,268 74
Yards and lockers	702 36
Employed at yards	22,107 46
Horses, carts, harnesses, etc.	\$18,517 04
Teaming	18,590 21
	<hr/>
	\$37,107 25
Less amount earned by service teams	31,241 13
	<hr/>
	5,866 12
Automobiles	12,248 34
Cleaning sewers	36,358 75
Office salaries	19,849 04
Office expense	2,798 10
Repairing department buildings	\$1,467 72
Repairing catch-basins, South Boston	3,533 72
Repairing catch-basins, East Boston	2,069 69
Repairing catch-basins, Charlestown	2,188 09
Repairing catch-basins, Brighton	949 84
Repairing catch-basins, West Roxbury	2,806 40
Repairing catch-basins, Dorchester	5,852 44
Repairing catch-basins, Hyde Park	266 31
Repairing catch-basins, Roxbury	2,508 69
Repairing catch-basins, city proper	2,762 27
Repairing sewers, South Boston	546 82
Repairing sewers, East Boston	1,366 25
Repairing sewers, Charlestown	343 63
Repairing sewers, Brighton	873 05
Repairing sewers, West Roxbury	1,893 04
Repairing sewers, Dorchester	3,129 67
Repairing sewers, Hyde Park	405 46
Repairing sewers, Roxbury	1,443 61
Repairing sewers, city proper	3,424 06
	<hr/>
	37,830 76
	<hr/>
<i>Carried forward</i>	\$555,462 08

<i>Brought forward</i>	\$555,462 08
Pension roll (veterans)	6,358 52
Pension roll (laborers)	6,677 36
Annuities	491 00
Fuel and oil	3,191 69
Hardware, tools, etc.	3,117 07
Engines and boilers	1,001 12
Sundries and miscellaneous charges	20,067 97
Telephones	357 01
House connections	9,411 11
Rubber goods	591 98
Gatehouses, Fenway	5,664 75
Stock	6,276 12

 \$618,667 76
Credit.

Stock transferred and used in construction	\$9,800 21
Fuel and oil transferred and used on construction	1,362 00
Hardware, tools, etc., transferred and used in construction	27 40
Engines and boilers transferred and used on construction	435 00
	<hr/>
	11,624 61
	<hr/>
	\$607,043 15

Charges to Various Parties for Work Done and Material Furnished, etc.

Cobb Brothers	\$7 50
F. L. McLaughlin	14 30
H. T. Rice	7 50
A. J. Cunningham Company	15 00
Solomon Eiseman	26 10
M. Piscopo	7 75
B. W. Warrington	7 75
Victor M. Hall	7 32
B. E. Sinclair	1 87
David J. Cole	7 75
Hotel Somerset	18 50
United States Health Department	10 60
Boston Infirmary Department	50 45
Park Department	133 20
Boston Fire Department	380 00
Mrs. Cramer	7 75
Jiboana Mackba	7 75
Zurich General Accident and Liability Insurance Company, Ltd.	75 00
Metropolitan Water and Sewerage Board	5,869 36
New York, New Haven & Hartford Railroad Company	9 44
P. J. Doyle	10 00
J. A. Simpkins	15 00
L. V. Niles	7 50
I. Meyer	15 00
John F. Lynch	438 83
George H. Abbott & Co.	27 31
Mary E. Lynch	7 75
Boston Elevated Railway Company	134 90
Thomas Burdett Agent	7 75
Boston Co-operative Building Company	7 75

Carried forward \$7,336 68

<i>Brought forward</i>	\$7,336 68
T. Danahy & Son	21 00
Lucy E. Callahan	13 24
Edward Cauley	5 82
M. Marks	7 75
C. P. Rockwell, Inc.	7 75
Humboldt Garage	7 75
J. Friedberg	5 43
H. Lesser	11 63
H. H. Sylvester	15 00
Betty Alden, Inc.	7 75
S. Rubin	7 75
John Kelly	2 50
George Bryne	10 00
Charles Street Garage	15 50
H. E. Russell	7 75
Mercantile Real Estate Trust	15 00
George Y. Berry	55 88
Mark H. Lynch	10 00
Elias Hirsch	10 56
Kenney Manufacturing Company	15 00
Superintendent of Supplies	302 25
M. J. Kelley	7 50
P. J. Barrett	21 11
M. Sperroza	7 75
Morse Real Estate Trust	7 75
Charles L. Weiner	24 49
Fred T. Ley	7 75
Joseph Schlossberg	6 05
Rosanna O'Neil	7 75
William D. Cahill	16 68
	<hr/>
	\$7,998 82

Amount Collected by the City Collector for Sewer Service February 1, 1921, to January 31, 1922.

F. L. McLaughlin	\$14 30
Cobb Brothers	7 50
H. F. Rice	7 50
A. J. Cunningham Company	15 00
Solomon Eiseman	26 10
Superintendent of Supplies	2 25
Benj. Piscopo	7 75
B. W. Warrington	7 75
Victor M. Hall	7 32
Thomas Rush	43 18
Coleman Brothers	18 00
B. Sinclair	1 87
F. T. Ley Company	10 25
D. J. Cole	7 75
Mrs. Cramer	7 75
Hotel Somerset	18 50
Jibrana Mickba	7 75
Zurich General Accident & Liability Insurance Company L't'd	75 00
P. J. Doyle	10 00
New York, New Haven & Hartford Railroad Company	9 44
J. H. Simpkins	15 00
L. V. Niles	7 50
L. Meyer	15 00
	<hr/>
<i>Carried forward</i>	\$342 46

<i>Brought forward</i>	\$342 46
Metropolitan Water and Sewerage Board	5,869 36
Boston Infirmary Department	50 45
George H. Abbott & Co.	27 31
Mary E. Lynch	7 75
Boston Co-operative Building Company	7 75
T. Danehy & Son	21 00
Thomas Burdett Agent,	7 75
United States Health Service	10 60
Lucy E. Callahan	13 24
Edward Cauley	5 82
Humboldt Garage	7 75
C. P. Rockwell, Inc	7 75
M. Marks	7 75
Boston Elevated Railway Company	134 90
J. Friedberg	5 43
H. Lesser	11 63
J. L. Pierce	984 64
H. H. Sylvester	15 00
Betty Alden, Inc.	7 75
J. Todesca	14 75
S. Rubin	7 75
John Kelly	2 50
Superintendent of Supplies	300 00
H. E. Russell	7 75
Mercantile Real Estate Trust	15 00
George Y. Berry	10 93
Elias Hirsch	8 61
Kenney Manufacturing Company	15 00
Charles Street Garage	15 50
Mark H. Lynch	10 00
P. J. Barrett	21 11
George Y. Berry	44 95
M. J. Kelly	7 50
Samuel Sperrazzo	7 75
Morse Real Estate Trust	7 75
C. L. Weiner	24 49
George Boyne	10 00
Fred T. Ley Company, Inc.	7 75
Elias Hirsch	1 95
William D. Cahill	16 68
Joseph Schlossberg	6 05

\$8,109 86

Sewer Service.— Maintenance Expenditures, Detail, 1921-22.

ACCOUNTS.	Total Expendi- tures.	Labor.	Teaming.	Stock.	Contracts.	Miscellaneous.
Automobiles (9)	\$12,248 34	\$6,962 23	.....	.....	.....	Repairs..... \$625 39 Equipment..... 3,136 17 Supplies..... 1,458 55 Fees..... 66 00 \$5,286 11
Cleaning catch-basins.....	109,268 74	39,085 73	\$5,638 10	\$184 95	\$63,021 76	Transportation..... \$423 70 Advertising..... 14 50 438 20
Cleaning sewers.....	36,358 75	21,634 68	8,357 28	604 57	5,263 00	Advertising..... \$9 00 Dumping..... 5 00 Coal..... 66 22 City engines..... 419 00 499 22
Engines and boilers.....	1,001 12	199 00	11 38	.....	.....	Waste, etc..... \$16 30 Repairs and inspections..... 316 94 Pump and gas engine..... 457 50 790 74
Employed at yards.....	22,107 46	22,107 46	.....	.....	.....	.....
Fuel and oil.....	3,191 69	.....	.....	.....	.....	Coal..... \$1,693 68 Oil and gasoline..... 1,498 01 3,191 69
Hardware and tools.....	3,117 07	125 00	29 25	.....	.....	Hose..... \$1,035 02 Hardware, repairs, etc... 1,927 80 2,962 82
House connections.....	9,411 11	8,494 11	552 13	31 52	.....	Transportation, etc..... \$333 35 333 35

Sewer Service.— Maintenance Expenditures, Detail, 1921-22.— Concluded.

ACCOUNTS.	Total Expendi- tures.	Labor.	Teaming.	Stock.	Contracts.	Miscellaneous.
Horses, carts, harnesses, etc.....	\$18,517 04	\$8,959 30	\$16 25	.....	.....	Fodder..... \$3,565 42 Stable goods and supplies, 940 65 Veterinary services, 42 00 Repairs wagons, and har- nesses..... 1,272 38 Shoeing..... 1,434 80 Board..... 2,256 24 \$9,541 49
Maintenance, Stony Brook.....	3,978 63	3,122 40	722 00	134 23	.....	Postage and printing..... \$354 36 Stationery and supplies..... 2,313 51 Miscellaneous..... 85 23 2,753 10
Office salaries.....	19,849 04	19,849 04	.....	.....	.....	{ 121 pairs boots..... } 34 coats..... } 38 pairs mitts..... } 42 hats..... }
Rubber goods.....	591 98	.....	.....	.....	.....	..... 591 98
Stock.....	6,276 12	373 28	595 75	5,307 09	.....	.....
Teaming.....	18,590 21	18,590 21	.....	.....	.....	.....
Yard and locker.....	792 36	145 00	34 50	.....	.....	Gas and electricity..... \$332 34 Miscellaneous..... 190 52 522 86
Telephones.....	357 01	.....	.....	.....	.....	..... 357 01
Back Bay Fens, gatehouses.....	5,664 73	2,686 50	29 25	382 11	.....	Electricity..... \$481 15 Repairs, etc..... 2,085 72 2,566 87
Miscellaneous sundries.....	20,067 97	15,903 10	374 62	202 82	.....	Repairs, etc..... \$545 37 Transportation..... 271 06 Workmen's Compen- sation..... 2,768 00 3,587 43

Repairing department buildings.....		1,467 72	202 90	746 70	Repairs at South yard..	518 12
Repairing catch-basins, South Boston.....		3,533 72	2,522 06	251 86		
" East Boston.....		2,069 69	1,071 40	487 50		
" Charlestown.....		2,188 09	1,369 10	282 75		
" Brighton.....		949 84	609 27	167 50		
" West Roxbury.....		2,806 40	1,202 07	339 83		
" Dorchester.....		5,852 44	2,701 91	803 13		
" Hyde Park.....		2,66 31	55 56	115 50		
" Roxbury.....		2,508 69	1,397 55	368 62		
" City Proper.....		2,762 27	1,781 30	344 87		
Repairing sewers, South Boston.....		546 82	198 00	71 50		
" East Boston.....		1,366 25	887 20	353 75		
" Charlestown.....		343 63	150 00	79 63		
" Brighton.....		873 05	513 72	172 25		
" West Roxbury.....		1,893 04	1,191 84	274 00		
" Dorchester.....		3,129 67	2,186 11	420 06		
" Hyde Park.....		405 45	188 61	121 25		
" Roxbury.....		1443 61	1,026 98	168 13		
" City Proper.....		3,424 06	2,631 06	287 60		
Annuities.....		491 00				491 00
Pension roll, veterans and laborers.....		13,035 88	13,035 88			
		\$345,455 11	\$203,204 56	\$21,490 24	\$69,184 76	\$34,431 99
<i>Less credits.</i>						
Teams.....		\$31 241 13				
Stock.....		9,800 21				
Fuel and oil.....		42,865 74	18,166 00	9,800 21		14,899 53
Hardware and tools.....		27 40				
Engines and boilers.....		435 00				
Totals.....		\$302,589 37	\$185,038 56	\$21,490 24	\$69,184 76	\$19,532 46

Sewer Service.—Maintenance Expenditures, Detail, 1921-22.

ACCOUNTS.	Total Expenditures.	Labor.	Contracts.	Teaming.	Waste.	Coal and Wood.	Oil and Gasolene.	Packing.	Valves.	Transportation.	Stable.	Pipe Fittings and Miscellaneous.	Autos.
Pumping Station, Calf Pasture:													
Inside.....	\$139,986 33	\$33,695 78	.....	.....	\$348 22	\$95,028 21	\$30 00	.....	.....	.....	.....	\$10,884 12	
Outside.....	25,831 01	19,880 02	\$2,896 89	\$208 50	.....	.....	8 50	.....	.....	.....	\$759 01	1,602 43	\$475 66
Engines.....	52,768 60	33,402 68	.....	.....	.....	.....	2,881 32	\$356 54	\$1,416 84	.....	.....	14,711 22	
Boilers.....	36,831 20	29,384 80	1,000 00	.....	.....	.....	.....	.....	.....	.....	.....	6,446 40	
Moon Island.....	19,232 25	15,255 04	.....	5 00	6 37	1,031 77	45 01	.....	.....	\$850 30	511 41	1,457 67	60 68
Main and intercepting sewers.....	14,948 03	10,639 00	.....	3,604 63	.....	.....	.....	.....	.....	.....	.....	704 40	
Pumping Stations:													
Union Park street.....	12,409 46	6,237 03	.....	273 00	.....	536 63	.....	.....	.....	.....	.....	5,362 80	
Summer street.....	1,369 33	729 06	.....	.....	.....	.....	.....	.....	.....	.....	.....	640 27	
Hyde Park.....	1,077 57	870 06	.....	.....	.....	.....	.....	.....	.....	6 00	.....	201 51	
Totals.....	\$304,453 78	\$150,093 47	\$3,896 89	\$4,091 13	\$354 59	\$96,506 61	\$2,964 83	\$356 54	\$1,416 84	\$865 30	\$1,270 42	\$42,010 82	\$536 34

Recapitulation.— Maintenance Detail, 1921-22.

	Improved Sewerage.	Outside Improved Sewerage.	Totals.
Labor.....	\$150,093 47	\$203,204 56	\$353,298 03
Contracts.....	3,896 89	69,184 76	73,081 65
Teaming, hired and city.....	4,091 13	21,490 24	25,581 37
Waste.....	354 59	16 30	370 89
Fuel.....	96,596 61	1,759 90	98,356 51
Oil.....	2,964 83	1,498 01	4,462 84
Packing.....	356 54	.....	356 54
Valves.....	1,416 84	.....	1,416 84
Transportation, etc.....	865 30	1,031 11	1,896 41
Horses, etc.....	1,270 42	9,541 49	10,811 91
Towing.....	400 00	.....	400 00
Pipe fittings and miscellaneous.....	41,218 13	.....	41,218 13
Telephone.....	392 69	357 01	749 70
Automobiles, repairs and supplies.....	536 34	5,286 11	5,822 45
Stock and miscellaneous supplies.....	.....	32,085 62	32,085 62
	\$304,453 78	\$345,455 11	\$649,908 89
CREDITS.			
<i>Outside Improved Sewerage.</i>			
Miscellaneous.....	\$14,899 53		
Labor.....	18,166 00		
Stock.....	9,800 21		
	.....	42,865 74	42,865 74
	\$304,453 78	\$302,589 37	\$607,043 15

SUPPLIES, PUMPING STATION, CALF PASTURE.

3,213 pounds waste, $9\frac{1}{2}$ cents to 16 cents.
 360 $\frac{3}{8}$ pounds packing, 40 cents to \$1.80.
 3,050 $\frac{1}{2}$ gallons engine oil, .477 cents to .565 cents.
 1,023 gallons cylinder oil, 72 cents to 88 cents.
 25 gallons lard oil, \$1.10 per gallon.
 810 pounds grease, $19\frac{1}{2}$ cents.
 400 gallons kerosene, 13 cents to 19 cents.
 858 gallons turbine oil, .504 cents to .621 cents.

FUEL ENTIRE SERVICE.

10,291 $\frac{410}{2240}$ tons bituminous coal \$95,028 21
 213 $\frac{570}{2000}$ tons anthracite coal 3,289 34

Coal at Pumping Station, Calf Pasture.

DATE.	Contractor.	Tons.	PAID IN 1921-22.	
			Per Ton.	Total.
1921.				
Jan. 9....	John Donahue. Stevedoring.....			\$549 60
Jan. 15....	John Donahue. Stevedoring.....			809 60
Jan. 8....	New England Coal and Coke Company,	687 $\frac{229}{240}$	{ \$9 25 * 30 }	6,150 73
Jan. 10....	New England Coal and Coke Company,	520 $\frac{199}{240}$	{ 9 25 * 20 }	4,710 04
Jan. 12....	New England Coal and Coke Company,	492	{ 9 25 * 20 }	4,452 60
April 7....	Castner, Curran & Bullitt, Inc.....	923 $\frac{760}{240}$	{ 9 32 * 141 }	8,475 29
April 11....	Castner, Curran & Bullitt, Inc.....	772 $\frac{889}{240}$	{ 9 32 * 118 }	7,111 70
May 12....	Castner, Curran & Bullitt, Inc.....	781 $\frac{890}{240}$	{ 9 32 * 265 }	7,075 55
June 22....	Castner, Curran & Bullitt, Inc.....	788 $\frac{890}{240}$	{ 9 32 * 121 }	7,252 31
July 25....	Castner, Curran & Bullitt, Inc.....	925 $\frac{1110}{240}$	{ 9 32 * 006 }	8,622 40
Aug. 10....	Castner, Curran & Bullitt, Inc.....	941 $\frac{1110}{240}$	{ 9 32 * 281 }	8,513 28
Sept. 2....	Castner, Curran & Bullitt, Inc.....	923 $\frac{770}{240}$	{ 9 32 * 229 }	8,393 71
Sept. 27....	Castner, Curran & Bullitt, Inc.....	831 $\frac{1110}{240}$	{ 9 32 * 279 }	7,518 77
Oct. 25....	Castner, Curran & Bullitt, Inc.....	981 $\frac{890}{240}$	{ 9 32 * 263 }	8,886 37
Nov. 9....	Castner, Curran & Bullitt, Inc.....	721 $\frac{1110}{240}$	{ 9 32 * 307 }	6,506 26
	Totals.....	10,291	.....	\$95,028 21

Catch-Basins Cleaned by Contract, 1921-22.

District.	Contractor.	Start and Finish of Work.	Price per Cubic Yard.	Cubic Yards Examined by Contractor.	Contractor Received by Districts.	Total Basins Cleaned.	Total Drop Inlets Cleaned.	Average Cubic Yards per Basin.	Total Cost of Inspection.	Average Total Cost to City per Basin, Including Drop Inlets.
1. City proper.....	Thomas D. Russo.....	{Feb. 14, 1921} {Sept. 14, 1921}	\$2 10	6,757.53	\$14,191 23	1,552	4	4.34	\$1,536 52	\$10 107
	Michael H. Loonie.....	{Nov. 30, 1921} {Dec. 19, 1921}	1 90	900.96	1,728 92	204	.....	4.46	178 32	9 35
2. Back Bay, South End and Roxbury.	Thomas D. Russo.....	{Feb. 14, 1921} {Sept. 24, 1921}	2 10	7,371.93	15,481 05	1,508	21	4.55	1,480 08	10 476
	Michael H. Loonie.....	{Nov. 30, 1921} {Dec. 19, 1921}	1 90	484.11	919 81	101	2	4.7	122 72	10 12
3. South Boston.....	Michael H. Loonie.....	{Feb. 1, 1921} {June 23, 1921}	2 10	2,612.65	5,486 56	604	2	4.31	852 12	10 46
4. Charlestown and East Boston.	Michael H. Loonie.....	{Feb. 1, 1921} {Aug. 13, 1921}	2 50	{1,008.95} {1,357.39}	6,140 88	{365 466}	{2 2}	2.94	868 71	8 394
5. Brighton.....	D. Vozella Company.....	{May 17, 1921} {July 22, 1921}	2 33	1,040.97	2,425 47	347	3	2.97	278 04	7 724
6. West Roxbury.....	D. Vozella Company.....	{Feb. 7, 1921} {July 2, 1921}	2 24	2,159.86	4,838 08	632	19	3.32	804 92	8 668
7. Dorchester and Hyde Park..	Thomas P. McMorrow.....	{Feb. 9, 1921} {Sept. 24, 1921}	1 58	{3,406.53} {1,522.99}	7,788 64	{954 373}	{30 16}	3.59	1,385 07	6 68
				28,722.87	\$59,000 64	7,196	101		\$7,506 50	
Total catch-basins cleaned.....				7,196	Total cost:					
Total drop inlets cleaned.....				101	Contractors..... \$59,000 64					
					Inspection..... * 8,736 70					
					Advertising..... 14 50					
					Miscellaneous..... 422 90					
					<u>\$68,174 74</u>					
Total cubic yards material removed, 28,722.87.										
Average cost per basin, including drop inlets, \$9,114.										
Average cubic yards material removed per basin, 3.98.										
Average cost per cubic yard material removed, \$2.31.										

* Includes \$1,230.20 general inspection.

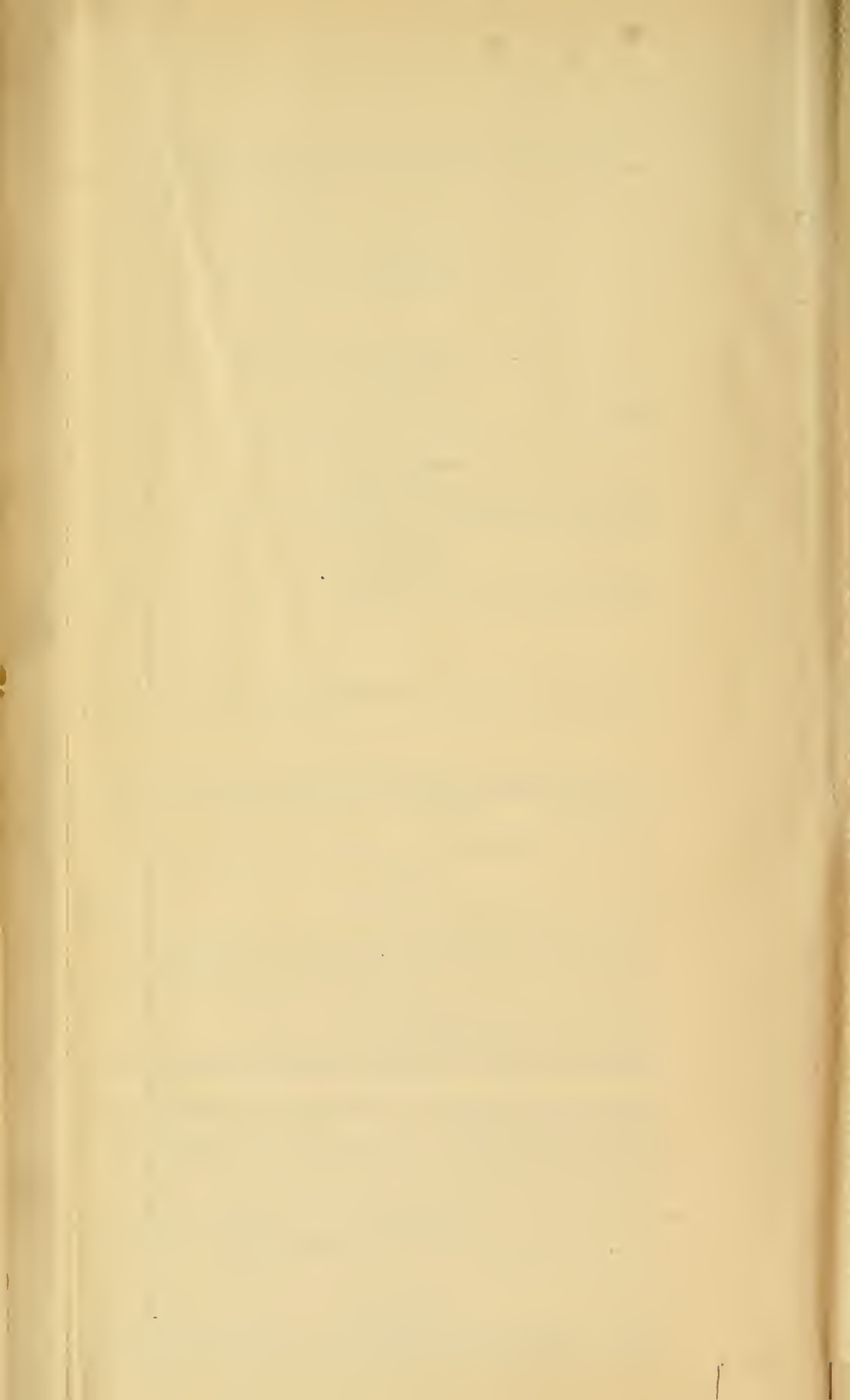
Sewerage Works.

Expenditures February 1, 1921, to January 31, 1922.

ACCOUNTS.	Labor.	Teaming.	Materials.	Miscellaneous.	Paid to Contractors.	Totals.
Engineers' salaries	\$87,218 91					\$87,218 91
Engineers' expense	2,507 83	\$429 91	\$314 96	\$7,880 43		11,133 13
Pumping stations	815 00		335 30	2,867 30	\$96,325 59	100,343 19
Sundries	2,256 21		6,471 38	226 14		8,953 73
Land-taking and court executions				600 00		600 00
New manholes, entire city	6,910 60	1,284 01	4,672 34	138 37	586 53	13,591 85
New catch-basins, South Boston	1,414 69	267 25	933 37	109 73		2,725 04
New catch-basins, East Boston	357 20	143 00	676 80			1,177 00
New catch-basins, Charlestown						
New catch-basins, Brighton	3,590 72	547 88	1,849 64	14 70	356 65	6,359 59
New catch-basins, West Roxbury	5,113 36	\$49 88	3,528 88	266 04		9,758 16
New catch-basins, Dorchester	1,334 31	274 64	1,363 80	25 00	268 04	3,265 79
New catch-basins, Hyde Park						
New catch-basins, Roxbury	1,673 20	304 00	981 72			2,958 92
New catch-basins, city proper	3,886 10	774 76	1,933 97	327 36		6,922 19
Sewers built in entire city	71,584 86	2,276 14	29,770 58	4,911 72	610,587 47	719,130 77
Totals	\$188,662 99	\$7,151 47	\$52,832 74	\$17,366 79	\$708,124 28	\$974,138 27

PIPE AND MASONRY SEWERS BUILT BY DAY LABOR, BY DISTRICTS

PIPE AND MASONRY SEWERS BUILT BY CONTRACT, BY DISTRICT.



SEWER CONSTRUCTION — *Continued.*
PIPE AND MASONRY SEWERS BUILT BY CONTRACT, BY DISTRICTS



SEWERAGE WORKS LOAN EXPENDITURES FOR 1921-22.

SOUTH BOSTON.

Alger street, from Dorchester avenue to about 540 feet westerly	\$2,172 65
Farragut road extension, from East First street to about 350 feet northwesterly	12,666 31
D street, from Claffin street to Fargo street and outlet in Fargo street, from D street to about 30 feet northwesterly	14,549 90
Farragut road, from East First street to East Second street, and East Second street, from Farragut road to O street	10,662 66
	<u>\$40,051 52</u>

Built 2,388.10 linear feet, 13 manholes, 17 catch-basins.

EAST BOSTON.

Murray court, from Orleans street to end of court, Lubec street outlet in private land, between Cottage street and existing conduit	\$259 41
Porter street, from Cottage street to Geneva street, and Cottage street, from Porter street to Gove street	28,576 71
	8,869 47
	<u>\$37,705 59</u>

Built 650.31 linear feet, 8 manholes, 1 tide gate chamber.

Built 280 linear feet, open ditch.

CHARLESTOWN.

Stark street, from Roland street to Cambridge street	\$1,656 58
Chelsea street, from Henley street to Chestnut street	3,058 90
	<u>\$4,715 48</u>

Built 848.27 linear feet, 12 manholes, 4 catch-basins.

BRIGHTON.

Cambridge street, from Hano street to Witton street	\$127 45
Chestnut Hill avenue, from Cleveland circle to Commonwealth avenue, and Glenville avenue, from Allston street to Greylock road	744 12
Larch street, from South Crescent circuit to Kenrick street	972 08
Brayton road, from Kenrick street to Crescent avenue	
South Crescent circuit, from Crescent avenue to Regent street, and South Crescent circuit and private land, from Larch street to Regent street, Market street, from Lothrop street to Washington street	
Murdock street, from North Beacon street to Cushman road, and Cushman road, from Glencoe street to Dustin street	2,228 62
Private land and Babcock street, from Salt creek outlet to Commonwealth avenue	524 44
Private land (outlet for Algonquin road, Newton), from Lake street to Newton line	784 53
Melton road, from Wallingford road to Colonial road	5,144 76
Saunders street, from Guildford street to Cambridge street, and Imrie road, from Cambridge street to Playground	2,732 93
North Harvard street, from Empire street to Parker avenue, and Parker avenue, from North-Harvard street to Sorrento street	1,560 29
Cleveland circle	7,230 74
Allston Heights, from Cambridge street to Ridgemont street	1,019 16
Faneuil Valley brook and dredging of Charles river	2,832 37
Burton street from Bellamy street to about 68 feet northerly	71 57
	<u>\$27,320 57</u>

Built 2,498.88 linear feet, 22 manholes, 17 catch-basins.

WEST ROXBURY.

Stony brook conduit section No. 10	\$63,432 94
Hastings street from Centre street to Montview street	258 81
Private land and private street (near Brook street) from Canterbury branch of Stony brook to brook, from Forest Hills Cemetery	448 88
<i>Carried forward</i>	<u>\$64,140 63</u>

<i>Brought forward</i>	\$64,140 63
Saville and Wren streets, from Park street to Oriole street and Board of Survey street No. 664 from Wren street to Emmons road	32,004 25
South street, Leshar street, and private land and Archdale road	1,116 33
Catch-basins and minor drains in various streets in Boston	5,418 73
Castleton street, from Jamaica way to South Huntington avenue and Zamora street, from Castleton street to about 415 feet southerly	1,452 06
Williams street and Forest Hills street, from about 220 feet southeast of Plainfield street about 30 feet south of Williams street	4,540 76
Centre street, from South street to Spring street, Chilton road, from Addington road to Weld street and outlet in private land	2,414 79
Anawan avenue and Allenwood street, from Beech street to Pelton street	2,481 69
Washington street from Corinth street to Auburn street	2,872 80
Catch-basins, manholes and minor drains in East Boston, Brighton and West Roxbury	6,194 76
Roslindale branch of Stony Brook, private land from Firth road to Murray Hill road, Firth road from Florence street to about 370 feet north, private land from Firth road to Lyndall street	3,722 87
Glendale road outlet section No. 1 and North avenue	51,534 30
Catch-basins, manholes and minor drains in Dorchester, Brighton, West Roxbury and Hyde Park	16,962 70
Bellevue street, from Howitt road to Robin street, Sturges road, from Lagrange street to Bellevue street	11,744 90
Metcalf street from Dudley avenue to Haskell road, Corey street from Corey street to Park street, and Hastings street from Corey street to Centre street	9,898 43
Alaric street from Centre street to about 250 feet westerly	650 16
Arborway from Forest Hills street to Morton street and Morton street from Forest Hills street to a point 800 feet east of Morton road, Wren street from Saville street to Robin street	3,731 80
Eldridge street from existing sewer to Dale street,	1,420 43
	2,239 24
	96 23
	495 84
	<hr/>
	\$225,133 70

Built 15,950.55 linear feet, 96 manholes, 110 catch-basins.

DORCHESTER.

Tenean street and private land 250 feet north of Fulton street	\$269 92
Itasca street, from Oakland street to about 1,182 feet northwesterly	2,145 37
Kennebec street and outlet in private land and Ruskin road	381 58
Private land and Banfield avenue, from Delhi street to West Selden street	1,422 17
Private land, from Delhi street to about 176 feet southeasterly	867 15
Catch-basins, manholes and surface drains in Boston	368 09
Catch-basins and minor drains, Dorchester and city proper	210 40
Fox Point road, from Savin Hill avenue to about 134 feet southeasterly and easterly	27 15
Boutwell street, from 75 feet west of Queen street to about 282 feet west, and Train street, from Boutwell street to about 256 feet north	3,729 38
Whitten street, from about 350 feet west of Adams street to Dorchester avenue	7,249 19
Oakwood avenue, from Capen street to about 180 feet northerly, and Payne street, from Dor- chester intercepting sewer to about 107 feet westerly	1,196 98
Davenport brook in private land, between Marsh street and Minot street, from existing concrete conduit in Henderson road to about 510 feet easterly	23,347 43
Ruxton road, from Rugby road to Ridge road	1,426 01
Elmhurst street, from Southern avenue to Norfolk street	1,323 54
Freeland street, from Standard street to about 350 feet northerly	
Rutledge road, from end of old sewer to about 110 feet northwesterly, Hyde Park	2,340 42
Sefton street, from Roanoke road to about 100 feet northeasterly, Hyde Park	
Armandine street, from about 140 feet west of Washington street, and private land 150 feet northerly	1,132 72
Private land and land of Consumptives' Hospital, from Manchester street to West Selden street,	4,871 59
Balsam street, from Irma street to Blue Hill ave- nue	2,755 11
Ashton street, from Arbutus street to Balsam street	
<i>Carried forward</i>	<hr/> \$55,064 20

<i>Brought forward</i>	\$55,064 20
Oakland brook in Monterey avenue, Savannah avenue, private land and Currier street	636 72
Harmon street, from Randolph road to about 200 feet northwesterly	1,420 88
Mattapan street, from Almont street to about 100 feet northeasterly	
East Cottage street, from Pleasant street to Dawes street	1,491 42
Passageway at 891 Adams street	614 19
Rockland avenue, from Grampian way to Caspian way	20 00
Morton street, from West Selden street to Summit street 90 feet southeast of Fairmount street,	50 00
	<hr/>
	\$59,297 41

Built 6,685.57 linear feet, 43 manholes, 21 catch-basins.

HYDE PARK.

Loring street, from Foster street to Tyler street and outlet in Glenwood avenue	\$120 79
River street, from Hyde Park avenue to Central avenue	197 35
Roanoke road, from Kennebee street to about 120 feet northwesterly	57 48
Roanoke road, from Blake street to Weybosset street	9,089 02
Seminole street, from Oakland street to Wood avenue	5,648 98
Wood avenue, from Oakland street to Noah street	5,177 10
Water street and Williams avenue and outlet in private land between Neponset river and Water street	5,038 24
Edgewater drive, from Burmah street to about 130 feet southwesterly	4,153 54
Tampa street, from Oakland street, Seminole street	
River street, from Church street to Ellis street, Private land, from River street to about 250 feet easterly	3,322 37
Hyde Park avenue, from about 250 feet southwest of New Allen street to about 550 feet southwest	
Wood avenue, from existing sewer 62 feet northeast of Parker street to about 250 feet northeast,	878 82
	<hr/>
<i>Carried forward</i>	\$34,695 52

<i>Brought forward</i>	\$34,695 52
Vanderbilt avenue, from Blake street to about 100 feet northwesterly	112 80
Irving street, from Hamilton street to Hyde Park avenue	618 60
	<hr/>
	\$35,426 92

Built 5,013.95 linear feet, 31 manholes, 5 catch-basins.

CITY PROPER.

Unity court, from Unity street to about 154 feet westerly and northerly	\$132 66
Berkeley street, from St. James avenue to Provi- dence street	711 20
Bridge court and North Anderson street, from Parkman street to Cambridge street	900 40
Catch-basins, manholes and minor drains in Boston	746 81
Kneeland street, from Atlantic avenue to Wash- ington street	1,036 14
Chatham street, from Commercial street to Mer- chants row	15,135 61
Hull street, from 177 feet southeast of Snow Hill street to 155 feet northwest	1,261 96
Catch-basins, manholes, and minor drains in Boston	16,562 16
Charles street, from Beacon street to Cambridge street	6,212 30
Catch-basins, manholes and minor drains in Boston	1,701 60
Mt. Vernon street, from Charles street to Charles River Embankment	2,714 51
Blackstone street, from Haymarket square to Clinton street	1,914 90
	<hr/>
	\$49,030 25

Built 2,664.07 linear feet, 11 manholes, 108 catch-basins.

ROXBURY.

Amory avenue, from Stony brook conduit to Amory street	\$689 05
Grosvenor place, from Cliff street to about 266 feet south and southwesterly	321 71
Public Alley No. 909, from Hemenway street to Massachusetts avenue	533 34
Cummington street, from Commonwealth avenue to Boston & Albany Railroad	376 46
	<hr/>
<i>Carried forward</i>	\$1,920 56

<i>Brought forward</i>	\$1,920 56
Brookline avenue, from Beacon street to Audubon road (Muddy river conduit)	203,446 57
Harrison avenue, from Eustis street to Palmer street	5,406 25
Townsend street, from Warren street to about 460 feet northwesterly	8,559 10
Alleghany street, from Terrace street to Parker street	3,348 88
Bickford street, from about 100 feet north from Centre street	632 45
Chesterton street, from Massachusetts avenue to Allerton street	6,224 94
Peabody street, from Brookline avenue to Binney street	1,080 01
Tilton street, from Fellows street to about 280 feet northwesterly	4,487 46
Alley No. 816, from St. Botolph street to about 275 feet southeasterly and outlet in St. Botolph street	5,183 11
Alley No. 817, from Gainsborough street to about 370 feet westerly	160 00
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	<u>\$240,449 33</u>

Build 5,409.73 linear feet, 30 manholes, 8 catch-basins.

SEWERAGE WORKS LOAN, 1921-22.

Engineers' salaries, general	\$87,218 91
Amount charged to construction of sewers	31,757 00
	<hr/>
	<u>\$118,975 91</u>

ENGINEERING EXPENSE.

Labor	\$2,507 83
Teaming	429 91
Borings	2,569 66
Transportation	2,283 58
Supplies, etc.	3,342 15
	<hr/>
	<u>\$11,133 13</u>

PUMPING STATION CONSTRUCTION.

Advertising	\$7 20
Labor	815 00
Contracts	96,325 59
Professional services	2,860 10
Materials	335 30
	<hr/>
	<u>\$100,343 19</u>

SUNDRIES.

Labor	\$2,256 21
Materials	6,471 38
Relocating water pipes	226 14
	<hr/>
	\$8,953 73
	<hr/>

COURT EXECUTIONS AND AWARDS ON ACCOUNT OF LAND-TAKINGS, ETC.

B. J. Connelly, private land and Norfolk street . .	\$300 00
Frank Zahn, executor, Temple street outlet . .	200 00
Mark S. Reinstein, Brook avenue	100 00
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	\$600 00
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Sewerage Works.—New Manholes.

LOCATION.	Built by	Number.	Labor.	Teaming.	Materials.	Totals.	Begun.	Finished.
Florence street, West Roxbury.....	Day labor.....	1	\$273 40	\$50 25	\$100 74	\$524 39	Feb. 15	Feb. 26
Folsom street Dorchester.....	Day labor.....	1	58 57	16 25	75 41	150 23	Mar. 7	Mar. 10
Medford street, Charlestown.....	Day labor.....	1	310 90	39 00	176 66	526 56	Mar. 8	Mar. 28
Commerce street, city proper.....	Day labor.....	1	171 46	52 00	107 15	330 61	Mar. 11	Mar. 17
East First street, South Boston.....	Day labor.....	1	182 80	35 75	103 56	322 11	Mar. 18	Mar. 24
Washburn avenue, East Boston.....	Day labor.....	1	183 07	55 25	192 39	430 71	April 5	April 14
Salem street, city proper.....	Day labor.....	1	119 88	41 00	91 49	252 37	April 8	April 12
Cedar street, Roxbury.....	Day labor.....	2	368 83	83 25	203 10	655 18	April 13	April 21
Florence street, city proper.....	Day labor.....	1	135 57	47 13	92 34	275 04	April 22	April 27
N street, South Boston.....	Day labor.....	1	220 09	42 25	94 53	356 87	April 27	May 5
Waltham street, rear of, city proper.....	Day labor.....	2	203 60	94 50	133 85	431 95	April 29	May 5
Parker street, Roxbury.....	Day labor.....	1	90 40	53 63	334 95	478 98	April 25	April 28
Stanford street, city proper.....	Day labor.....	1	178 20	54 00	80 92	313 12	May 10	May 21
Norman street, city proper.....	Day labor.....	2	238 60	67 00	196 23	501 83	May 4	May 21
Hudson street, Charlestown.....	Day labor.....	1	111 60	32 50	97 63	241 73	May 31	June 8
Kingsbury street, Roxbury.....	Day labor.....	1	134 46	42 00	101 36	277 82	May 27	June 2
Grenville place, city proper.....	Day labor.....	1	147 70	32 50	51 00	231 20	July 25	Aug. 1
Warren street, Charlestown.....	Day labor.....	1	181 90	45 50	113 07	340 47	June 25	July 7
Berkley street, city proper.....	Day labor.....	1	290 00	91 00	129 57	510 57	July 1	July 14
Harrison avenue, city proper.....	Day labor.....	1	74 50	48 75	77 85	201 10	July 19	July 28

Sewerage Works.—New Manholes.—Concluded.

LOCATION.	Built by	Number.	Labor.	Teaming.	Materials.	Totals.	Began.	Finished.
Beacon street, Brighton.....	Day labor.....	1	\$95 17	\$25 25	\$57 40	\$177 82	May 31	June 2
Homes avenue, Dorchester.....	Day labor.....	1	53 20	19 50	57 70	130 40	Aug. 22	Aug. 25
Church street, city proper.....	Day labor.....	1	173 80	45 50	93 70	313 00	Aug. 26	Sept. 1
Sawyer street, Roxbury.....	Day labor.....	1	81 20	34 12	59 56	174 88	Sept. 6	Sept. 10
Linwood place, Charlestown.....	Contract.....	2	32 60	.....	†652 53	685 13	Sept. 1	Sept. 15
Harvard street, Dorchester.....	Day labor.....	1	83 71	11 38	30 80	125 89	Sept. 26	Oct. 8
Astor street, Roxbury.....	Day labor.....	1	295 88	28 00	50 70	374 58	Nov. 7	Nov. 14
Cumberland street, Roxbury.....	Day labor.....	1	217 97	23 50	57 50	298 97	Nov. 15	Nov. 22
Shepton street, Dorchester.....	Day labor.....	1	152 40	34 25	42 62	229 27	Nov. 15	Nov. 19
State street, city proper‡.....	Day labor.....	1	208 21	39 00	43 91	291 12	Oct. 31	Nov. 5
Lucas street, city proper*.....	Day labor.....	1	197 11	.....	77 25	274 36	Dec. 16	Dec. 22
Cabot street, Roxbury*.....	Day labor.....	1	191 40	.....	42 44	233 84	Dec. 9	Dec. 19
Dudley street, Roxbury*.....	Day labor.....	1	56 00	.....	65 45	121 45	Dec. 19	Dec. 22
Centre street, West Roxbury*.....	Day labor.....	1	150 00	.....	75 00	225 00	Nov. 1	Nov. 14
Elm Hill avenue, Roxbury*.....	Day labor.....	1	287 42	.....	41 74	329 16	Jan. 6, 1922	Jan. 17, 1922
Holborn Park, Roxbury.....	Day labor.....	1	80 00	.....	8 46	88 46	Jan. 6, 1922	Jan. 17, 1922
Tremont and Dedham streets, city†.....	Day labor.....	1	699 20	.....	1,263 50	1,962 70	Nov. 7, 1921	Dec. 8, 1921
Miscellaneous.....	.....	.....	79 80	.....	109 62	189 42		
Paid in 1921 manholes built in 1920.....	.....	.....	.....	.....	13 56	13 56		
Totals.....	.....	.....	\$6,910 60	\$1,284 01	\$5,397 24	\$13,591 85		

* Cost not complete.

† Paid to Contractor \$586.53.

‡ Regulator.

§ Lamp hole.

SEWERAGE WORK LOAN.

New Catch-basins Paid for February 1, 1921, to January 31, 1922. (Contract and Day Labor.)

DISTRICT.	Built by	BUILT IN 1920.		BUILT IN 1921.			Total Expenditures.	Location.	Number Catch-basins Built.	Number Catch-basins Rebuilt.
		Materials, etc.		Labor.	Contractor.	Materials and Teaming.				
New catch-basins, South Boston....	Day labor....	.....	.....	\$161 76	.....	\$174 99	\$336 75	I and Second streets.....	.....	1
New catch-basins, South Boston....	Day labor....	.....	.....	178 51	.....	294 41	472 92	East Broadway.....	1	3
New catch-basins, South Boston....	Day labor....	.....	.....	150 00	.....	318 65	468 65	Summer street.....	.....	4
New catch-basins, South Boston....	Day labor....	.....	.....	482 51	.....	308 75	791 26	H street.....	.....	1
New catch-basins, South Boston....	Day labor....	.....	.....	382 11	.....	163 35	545 46	I and Fifth streets.....	1	
New catch-basins, South Boston....	Day labor....	.....	.....	59 80	.....	50 20	110 00	Connections.	.....
New catch-basins, East Boston....	Day labor....	.....	.....	\$1,414 69	.....	\$1,310 35	\$2,725 04	Chelsea street.....	2	8
New catch-basins, Brighton....	Day labor....	.....	.....	357 20	.....	819 80	1,177 00	Commonwealth avenue.....	1	6
New catch-basins, Brighton....	Contract....	.....	.....	123 10	.....	210 05	333 15	Melton road.....	1	
New catch-basins, Brighton....	Day labor....	.....	.....	131 72	\$356 65	60 00	548 37	Brentwood street.....	2	
New catch-basins, Brighton....	Day labor....	.....	.....	331 59	.....	262 76	594 35	North Beacon street *.....	9	
New catch-basins, Brighton....	Day labor....	.....	.....	2,544 57	.....	1,641 11	4,185 68	Woodstock avenue *.....	1	
New catch-basins, Brighton....	Day labor....	.....	.....	408 44	.....	136 84	545 28	Connections.	.....
New catch-basins, Brighton....	Day labor....	.....	.....	51 30	.....	101 46	152 76	.....	.....
New catch-basins, West Roxbury....	Day labor....	\$228 84	.....	\$3,590 72	\$356 65	\$2,412 22	\$6,359 59	.....	14	
New catch-basins, West Roxbury....	Day labor....	.....	.....	\$887 51	.....	\$1,595 29	\$228 84	Green street.....	4	
New catch-basins, West Roxbury....	Day labor....	.....	.....	431 49	.....	215 20	2,482 80	West Roxbury Parkway....	1	

* Cert not complete.

Sewerage Works Loan.—Concluded.

District.	Built by	Built in 1920.		Built in 1921.			Total Expenditures.	Location.	Number Catch-basins Built.	Number Catch-basins Rebuilt.
		Materials, etc.		Labor.	Contractor.	Materials and Teaming.				
New catch-basins, West Roxbury....	Day labor....	.....	.....	\$307 95	.....	\$193 48	\$501 43	Metropolitan avenue.....	1	
New catch-basins, West Roxbury....	Day labor....	.....	.....	675 42	.....	298 05	973 47	Louder's lane.....	1	
New catch-basins, West Roxbury....	Day labor....	.....	.....	450 04	.....	336 09	786 13	Orchard street.....	2	
New catch-basins, West Roxbury....	Day labor....	.....	.....	231 50	.....	231 91	463 41	McBride street.....	1	
New catch-basins, West Roxbury....	Day labor....	.....	.....	917 94	.....	754 20	1,672 14	South street.....	5	
New catch-basins, West Roxbury....	Day labor....	.....	.....	329 35	.....	299 16	628 51	Center street.....	1	
New catch-basins, West Roxbury....	Day labor....	.....	.....	882 16	.....	343 88	1,226 04	Grove street *.....	2	
New catch-basins, West Roxbury....	Day labor....	.....	.....	.....	.....	148 70	148 70	Connections.		
New catch-basins, Dorchester.....	Day labor....	\$228 84	.....	\$5,113 36	.....	\$4,415 96	\$9,758 16		18	
New catch-basins, Dorchester.....	Day labor....	25 20	.....	.....	.....	.....	25 20			
New catch-basins, Dorchester.....	Day labor....	.....	.....	127 29	.....	174 20	301 49	Adams street.....	1	
New catch-basins, Dorchester.....	Day labor....	.....	.....	282 02	.....	551 35	833 37	Park street.....	3	
New catch-basins, Dorchester.....	Day labor....	.....	.....	117 97	.....	181 80	299 77	Denny street.....	1	
New catch-basins, Dorchester.....	Day labor....	.....	.....	379 40	\$268 04	258 93	906 37	Richfield street.....	2	
New catch-basins, Dorchester.....	Day labor....	.....	.....	116 80	.....	100 05	216 85	Judson street.....	1	
New catch-basins, Dorchester.....	Day labor....	.....	.....	101 37	.....	289 24	390 61	Sydney street.....	2	
New catch-basins, Dorchester.....	Day labor....	.....	.....	140 15	.....	14 80	154 95	Babson street *.....	1	
New catch-basins, Dorchester.....	Day labor....	.....	.....	69 31	.....	67 87	137 18	Connections.		
New catch-basins, Dorchester.....	Day labor....	\$25 20	.....	\$1,334 31	\$268 04	\$1,638 24	\$3,265 79		11	

New catch-basins, Roxbury.....	Day labor.....	\$77 85	\$133 85	\$211 70	Pilgrim road.....	1
New catch-basins, Roxbury.....	Day labor.....	314 89	136 35	451 24	Huntington avenue.....	1
New catch-basins, Roxbury.....	Day labor.....	117 20	174 60	291 80	Ashley street.....	1
New catch-basins, Roxbury.....	Day labor.....	851 20	771 17	1,622 37	Columbus avenue.....	5
New catch-basins, Roxbury.....	Day labor.....	312 06	69 75	381 81	Connections.....	
		\$1,673 20	\$1,285 72	\$2,958 92		6
New catch-basins, city proper.....	Day labor.....	\$463 82		\$463 82		
New catch-basins, city proper.....	Day labor.....	\$86 51	\$72 02	158 53	122 Commercial street.....	1
New catch-basins, city proper.....	Day labor.....	180 80	197 37	378 17	Boylston place.....	2
New catch-basins, city proper.....	Day labor.....	730 38	568 71	1,299 09	South and North Market streets.....	4
New catch-basins, city proper.....	Day labor.....	130 20	235 30	365 50	West Newton street.....	3
New catch-basins, city proper.....	Day labor.....	130 20	184 80	315 00	Richmond street.....	2
New catch-basins, city proper.....	Day labor.....	529 07	104 52	633 59	Commercial street and Atlantic avenue.....	2
New catch-basins, city proper.....	Day labor.....	81 71	88 85	170 56	Harrison avenue.....	1
New catch-basins, city proper.....	Day labor.....	157 00	117 70	274 70	95 Washington street.....	
New catch-basins, city proper.....	Day labor.....	115 00	177 95	292 95	Canden and Tremont streets.....	1
New catch-basins, city proper.....	Day labor.....	63 60	257 75	321 35	56 Commerce street.....	1
New catch-basins, city proper.....	Day labor.....	124 30	151 70	276 50	Clark and Hanover streets.....	1
New catch-basins, city proper.....	Day labor.....	171 36	96 60	267 96	34 Nashua street.....	1
New catch-basins, city proper.....	Day labor.....	265 17	126 85	392 02	Commonwealth avenue.....	
New catch-basins, city proper.....	Day labor.....	529 07	111 70	640 77	Stuart street *.....	2
New catch-basins, city proper.....	Day labor.....	591 23	80 45	671 68	Connections.....	
		\$3,886 10	\$2,572 27	\$6,922 19		22
		\$17,369 58	\$14,454 56	\$33,166 69		42
Grand totals.....		\$717 86	\$624 69			49

* Cost not complete.

New Catch-basins Paid for February 1, 1921, to January 31, 1922 (Included in Other Sewer Construction).

DISTRICT.	Built by	Contractor.	EXPENDITURES.			Totals.	Location.	Number.
			Materials, etc.	Labor.	Materials and Teaming.			
South Boston.....	Contract.....	\$1,881 00	\$972 45	.....	.....	\$2,853 45	D street.....	10
South Boston.....	Contract.....	640 00	.....	.....	.....	640 00	Farragut road.*.....	7
Charlestown.....	Contract.....	112 33	100 58	.....	.....	212 91	Stark street.....	1
Charlestown.....	Contract.....	421 69	133 97	.....	.....	555 66	Chelsea street.....	3
Brighton.....	Contract.....	406 87	300 74	.....	.....	707 61	Melton road.....	3
Brighton.....	Contract.....	789 76	436 50	.....	.....	1,226 26	Saunders and Imrie streets.....	5
Brighton.....	Day labor.....	.....	.....	\$2,664 48	\$1,748 60	4,413 08	Cleveland circle.....	9
West Roxbury.....	Contract.....	288 04	75 43	.....	.....	363 47	Williams street.....	1
West Roxbury.....	Contract.....	4,955 33	463 40	.....	.....	5,418 73	Catch-basins and minor drains†.....	4
West Roxbury.....	Contract.....	560 34	301 11	.....	.....	861 45	Anawan avenue.....	4
West Roxbury.....	Contract.....	508 22	279 92	.....	.....	788 14	Chilton road.....	3
West Roxbury.....	Day labor.....	.....	.....	2,400 00	1,430 02	3,830 62	Washington street.....	9
West Roxbury.....	Contract.....	1,883 14	1,212 73	.....	.....	3,095 87	Catch-basins, manholes and minor drains.†.....	11
West Roxbury.....	Contract.....	6,912 55	3,832 35	.....	.....	10,744 90	Catch-basins, manholes and minor drains.†.....	50
West Roxbury.....	Contract.....	1,315 66	1,088 44	.....	.....	2,404 10	Bellevue street.....	16
West Roxbury.....	Contract.....	569 21	428 00	.....	.....	997 21	Metcalf street.....	5
West Roxbury.....	Contract.....	527 00	.....	.....	.....	527 00	Arborway and Morton street.*.....	9
Dorchester.....	Contract.....	707 40	601 97	.....	.....	1,309 37	Boutwell street.....	6
Dorchester.....	Contract.....	1,003 54	796 70	.....	.....	1,800 24	Whitten street.....	8
Dorchester.....	Contract.....	205 85	178 59	.....	.....	384 44	Ruxton road.....	2

Dorchester.....	Contract.....	184 00	84 76	.....	268 76	Armandine street.....	1
Dorchester.....	Contract.....	320 00	302 00	.....	622 00	Balsam street.....	4
Hyde Park.....	Contract.....	378 30	149 50	.....	527 80	Water street.....	3
Hyde Park.....	Contract.....	204 72	156 50	.....	361 22	River street.....	2
Roxbury.....	Contract.....	152 18	77 28	.....	229 46	Harrison avenue.....	1
Roxbury.....	Contract.....	435 87	220 67	.....	656 54	Townsend street.....	2
Roxbury.....	Contract.....	459 46	280 00	.....	739 46	Chesterton street.....	4
Roxbury.....	Contract.....	212 55	159 16	.....	371 71	Tilton street.....	1
City proper.....	Contract.....	1,454 58	710 50	.....	2,165 08	Chatham street.....	7
City proper.....	Contract.....	11,381 50	5,180 66	.....	16,562 16	Catch-basins, manholes and drains,*†	71
City proper.....	Day labor.....	.....	.....	1,026 72	520 02	Charles street.....	8
City proper.....	Contract.....	1,213 80	487 80	.....	1,701 60	Catch-basins, manholes and drains,*	22
		\$40,084 89	\$19,011 71	\$6,091 20	\$3,699 24		292
					\$68,887 04		

* Cost not complete.

Recapitulation.

49 catch-basins built	.....	\$33,166 69
42 catch-basins rebuilt	.....	68,887 04
292 catch-basins built included in other sewer construction.....		
383		\$102,053 73
† Distributed as follows:		
South Boston, 8 catch-basins.....		\$1,864 00
East Boston, 6 catch-basins.....		1,166 25
Brighton, 9 catch-basins.....		2,868 00
West Roxbury, 44 catch-basins.....		8,947 52
Dorchester, 3 catch-basins.....		713 00
Hyde Park, 1 catch-basin.....		613 00
Roxbury, 18 catch-basins.....		4,961 00
City proper, 47 catch-basins.....		14,688 89
		\$35,821 66

Old Harbor Improvement.
Expenditures February 1, 1921, to January 31, 1922.

ACCOUNTS.	Labor.	Teaming.	Materials.	Miscellaneous.	Paid to Contractors.	Totals.
Sewer built.....	\$720 52	.....	\$106 44	\$5 52	\$44,253 11	\$45,085 59

K street, from 155 feet south of Columbia road
to a point about 424 feet southerly } \$45,085 59
N street, from 90 feet south of Columbia road
to a point about 302 feet southeasterly }
Built 6.31 linear feet.

Cost of Maintaining all Horses in the Sewer Service from February 1, 1921, to January 31, 1922.

ITEMS.	Total Cost.	28 Horses Average Cost per day.
Labor.....	\$13,119 30	\$1 283
Fodder.....	6,825 06	667
Shoeing.....	1,711 20	167
Veterinary services.....	266 97	026
Stable goods.....	137 30	013
Totals.....	\$22,059 83	\$2 156

SEWER SERVICE.

Summary of Sewer Construction for Twelve Months Ending January 31, 1922.

DISTRICT.	Built by the City by Contract or Day Labor.	Built by Private Parties.	Total Length.	Built.
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Miles.</i>
City proper.....	1,230.07	.....	1,230.07	0.233
Roxbury.....	5,961.32	.....	5,961.32	1.129
South Boston.....	1,994.91	.....	1,994.91	0.378
East Boston.....	650.31	.....	650.31	0.123
Charlestown.....	776.27	142.30	918.57	0.174
Brighton.....	1,921.88	.....	1,921.88	0.364
West Roxbury.....	13,215.68	77.00	13,292.68	2.518
Dorchester.....	7,276.55	59.88	7,336.43	1.389
Hyde Park.....	4,088.49	.....	4,088.49	0.774
Totals.....	37,115.48	279.18	37,394.66	7.082

Net Increase in Length of Sewers Between February 1, 1921, and January 31, 1922.

DISTRICT.	Length of Sewers Built During the Twelve Months Ended January 31, 1922.	Length of Sewers Re-built or Abandoned During the Twelve Months Ended January 31, 1922.	Net increase for the Twelve Months Ended January 31, 1922.	
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Miles.</i>
City proper.....	1,230.07	1,014.75	215.32	0.041
Roxbury.....	5,961.32	2,943.87	3,017.45	0.571
South Boston.....	1,994.91	130.00	1,864.91	0.353
East Boston.....	650.31	122.00	528.31	0.100
Charlestown.....	918.57	142.30	776.27	0.147
Brighton.....	1,921.88	264.70	1,657.18	0.314
West Roxbury.....	13,292.68	1,261.41	12,031.27	2.279
Dorchester.....	7,336.43	.....	7,336.43	1.389
Hyde Park.....	4,088.49	.....	4,088.49	0.774
Totals.....	37,394.66	5,879.03	31,515.63	5.968

<i>Total Length of Sewers.</i>	<i>Miles.</i>
Common sewers and surface drains previous to January 31, 1921.....	946.07
Net increase of common sewers and surface drains, between February 1, 1921 and January 31, 1922.....	5.97
Total common sewers and surface drains to January 31, 1922.....	952.04
Intercepting sewers connecting with Metropolitan system to January 31, 1922.....	* 6.81
Boston main drainage intercepting sewers to January 31, 1922.....	* 24.12
Grand total of common and intercepting sewers to January 31, 1922...	982.97
Total mileage of streets containing sewerage works.....	582.62

* No additions during 1921.

Summary of Sewer Construction for Five Years Previous to February 1, 1922.

	1917.	1918.	1919.	1920.	1921.
	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>	<i>Linear Feet.</i>
Built by the city by contract or day labor.....	80,828.46	31,764.84	57,105.04	42,541.12	37,115.48
Private parties.....	4,155.90	5,406.00	387.20	12.00	279.18
Totals.....	84,984.36	37,170.84	57,492.24	42,553.12	37,394.66

Schedule of Catch-basins in Charge of Sewer Service, February 1, 1922.

DISTRICT.	CATCH-BASIN DATA FOR YEAR ENDED JANUARY 31, 1922.			TOTAL FOR WHOLE CITY IN CHARGE OF SEWER SERVICE.	
	Catch- Basins Built or Rebuilt.	Number Abandoned or Removed.	Net Increase.	Previous Report to February 1, 1921.	Grand Total to February 1, 1922.
City proper.....	106	93	13	3,189	3,202
Roxbury.....	35	3	32	2,793	2,825
South Boston.....	35	16	19	1,232	1,251
East Boston.....	6	.....	6	877	883
Charlestown.....	4	2	2	751	753
Brighton.....	40	6	34	1,245	*1,279
West Roxbury.....	103	5	98	2,022	†2,120
Dorchester.....	27	1	26	3,470	3,496
Hyde Park.....	4	1	3	361	364
Totals.....	360	127	233	15,940	16,173

* Exclusive of 236 in Commonwealth avenue.

† Exclusive of 58 in Washington street, between La Grange street and the Dedham line (State Highway).

EQUIPMENT OF PUMPING STATIONS.

Calf Pasture Pumping Station.

One vertical beam and fly-wheel, triple expansion engine of the Leavitt type; cylinders, $18\frac{1}{2}$ inches, 33 inches and $52\frac{3}{4}$ inches in diameter; two single-acting pump plungers, each 60 inches diameter and 120-inch stroke; capacity 72,000,000 gallons in twenty-four hours with 40-foot lift.

Two vertical beam and fly-wheel compound engines of the Leavitt type; cylinders $25\frac{1}{2}$ inches and 52 inches in diameter; two single-acting pump plungers, each 48 inches in diameter and 108-inch stroke; capacity of each engine 35,000,000 gallons in twenty-four hours with 40-foot lift.

Two steam turbine driven centrifugal pumps of the DeLaval type, with a capacity of 56,000,000 gallons each in twenty-four hours with a 40-foot lift.

Total horse power pumping engines, 2,050.

Total horse power station, including auxiliaries, 2,200.

Summer Street Pumping Station (Automatic).

Two submerged centrifugal pumps of the single stage, single bottom suction vertical type. Capacity of each

pump, 3,000 gallons per minute against 13-foot static head when running 675 revolutions per minute.

Motor for each pump is a 20-brake horse power, 220 volts, 60-cycle, 3-phase vertical constant speed induction motor of the squirrel cage type.

Union Park Street Pumping Station (Automatic).

One 24-inch vertical submerged centrifugal pump, capacity 15,000 gallons per minute against static head of $13\frac{1}{2}$ feet when running 233 revolutions per minute.

Three 36-inch vertical submerged centrifugal pumps, capacity of each 30,000 gallons per minute against a static head of $13\frac{1}{2}$ feet when running 194 revolutions per minute.

Motor for 24-inch pump is one 75-brake horse power constant speed, squirrel cage, 3-phase alternating current induction motor; synchronous speed of 240 revolutions per minute, full load speed of 233 revolutions per minute with alternating 3-phase, 60-cycle current at 440 volts.

Motors for the three 36-inch pumps are each 150-brake horse power, with synchronous speed of 200 revolutions per minute, full load speed of 194 revolutions per minute; same description of motor and of current as for the 75-brake horse power motor.

Hyde Park Pumping Station (Automatic).

One 3-B Priestman Ejector, capacity of 100 gallons per minute against a static head of $12\frac{1}{2}$ feet, with two gates, one inlet flap valve, one outlet check valve and one operating valve.

One Worthington $7\frac{1}{2}$ horse power motor.

COST OF PUMPING.

Average cost per million foot gallons for pumping: Volume (39,831.686 million gallons) by (times) lift 39.7 feet = 1,581,317.943 million foot gallons for the year.

Labor cost included in total is based upon the following force of forty-seven men:

One superintendent, one clerk, one electrician, one carpenter, one blacksmith, two machinists, four laborers and four engineers' watches, each including nine men.

Cost of city water not included.

ITEMS.	Cost.	Cost per Million Foot Gallons.
Labor.....	\$76,460 01	\$0 04835
Coal.....	81,957 30	05183
Oils and waste.....	3,296 02	00208
Rubber valve and packing.....	1,616 67	00102
Miscellaneous renewals and supplies.....	30,669 68	01939
Totals.....	\$193,999 68	\$0 12267
Labor at screens.....	\$6,908 00	\$0 00437

Table of Approximate Quantities, Lifts and Duties at Calf Pasture Pumping Station.

MONTH.	Total Pumpage. Gallons.	Average per Day. Gallons.	Minimum Day. Gallons.	Maximum Day. Gallons.	Average Lift. Feet.	Average Duty, Foot- Pounds per 100 Pounds of Coal.
1921.						
February.....	3,302,847,080	117,948,110	88,328,088	131,674,656	40.4	66,300,000
March.....	3,642,225,144	117,491,134	97,836,120	124,761,860	40.4	67,000,000
April.....	3,557,745,710	118,591,524	107,104,788	125,535,276	40.4	68,600,000
May.....	3,840,253,976	123,879,161	114,152,868	128,900,880	40.4	71,600,000
June.....	3,558,052,124	118,601,737	112,408,252	125,360,992	40.4	69,400,000
July.....	3,778,021,821	118,645,865	112,723,236	128,907,780	40.4	67,800,000
August.....	3,724,578,318	120,147,688	120,147,688	126,618,900	40.4	68,600,000
September.....	3,285,419,490	109,513,983	83,821,860	125,814,208	40.4	67,600,000
October.....	2,080,650,551	86,472,598	59,636,354	121,900,292	39.7	75,300,000
November.....	2,896,666,327	96,555,544	66,885,769	127,832,638	39.5	74,100,000
December.....	2,636,877,657	85,060,570	71,743,428	109,219,970	37.6	81,400,000
1922.						
January.....	2,928,348,046	94,462,840	80,484,466	109,781,471	36.9	84,700,000
Totals.....	39,831,686,244	1,307,576,754	1,115,273,917	1,486,308,923	476.9	862,100,000
Averages.....	109,127,908	108,947,564	92,939,493	123,859,077	39.7	71,800,000

Recapitulation.

Total gallons pumped February 1, 1921 to February 1, 1922	39,831,686,244
Daily average gallons pumped February 1, 1921 to February 1, 1922	109,127,908
Average dynamic head	39.7
Foot gallons	1,581,317,943,887
Number of foot gallons per 100 pounds coal	8,509,577
Foot pounds per 100 pounds coal at 8.369 pounds per gallon	71,217,650
Total coal for pumping (pounds)	18,582,847

Amount of Refuse Removed from Filth Hoist Chamber from
February 1, 1921, to January 31, 1922, Inclusive.

MONTH.	Number Cheeses.*	Weight. (Pounds).
1921.		
February.....	168	87,128
March.....	140	30,940
April.....	130	28,730
May.....	84	18,564
June.....	126	27,846
July.....	23	6,133
August.....	91	20,111
September.....	181	40,001
October.....	241	53,261
November.....	181	40,001
December.....	218	48,178
1922.		
January.....	203	44,863
Totals.....	1,791	†395,811

* Cheeses—Average, 221 pounds.

† 197+1811—2000 tons.

SANITARY SERVICE.

FINANCIAL STATEMENT.

Appropriation, maintenance	\$1,507,256 63
Transferred from the appropriation for Street Cleaning and Oiling Service	30,791 35
	<hr/>
	\$1,538,047 98
Expended during the year	1,536,633 27
	<hr/>
Unexpended balance transferred to city treasury,	<u>\$1,414 71</u>

INCOME.

Statement showing amount of cash and bills deposited with the City Collector from February 1, 1921, to January 31, 1922, and credited to general revenue.

Tickets and bills for the removal of ashes and waste	\$97,072 02
Sale of manure	3,390 70
Labor and materials	23 85
Old material sold	100 00
Forfeiture on bid	500 00
	<hr/>
Total	<u>\$101,086 57</u>

AMOUNT PAID INTO THE CITY TREASURY DURING THE YEAR.

Removal of ashes and waste	\$97,054 10
Sale of manure	3,390 70
Sale of old material	139 49
Labor and materials	74 50
Forfeiture on bid	500 00
Refund	32 50
	<hr/>
	<u>\$101,191 29</u>

Total Cost of House Dirt, Waste, Rubbish and House Offal, 1921.

Salaries of division engineer, supervisor and medical inspector	\$8,141 56	
Office supplies and expenses, printing, stationery, etc.	5,880 26	
Ashes, waste and rubbish account	1,048,581 76	
House offal account	382,821 05	
Annuities	\$300 00	
Retired veterans' pensions	2,506 04	
Retired laborers' pensions	12,966 64	
	<hr/>	15,772 68
Total	\$1,461,197 31	

CONSTRUCTION REPAIRS AND HORSESHOEING ACCOUNT.

Expended for labor	\$80,289 51	
Expended for stock	25,216 67	
	<hr/>	105,506 18
		<hr/>
		\$1,566,703 49

WORK DONE FOR OTHER SERVICES.

Paving Service	\$7,584 88	
Sewer Service	1,817 86	
Street Cleaning Service	16,187 51	
Water Service	4,255 92	
Bridge Service	224 05	
	<hr/>	30,070 22
Total	\$1,536,633 27	

Items of Expenditure for the Year 1921-22.

Salary, division engineer (in part).....	\$1,667 67
Salary, supervisor (in part).....	1,748 12
Salary, medical inspector (in part).....	1,083 33
Salary, chief veterinary (in part).....	887 50
Salaries, foremen.....	20,823 28
Salaries, yard clerks.....	2,316 63
Labor, collecting and disposing of house dirt and ashes.....	448,897 68
Labor, collecting and disposing of waste and rubbish.....	32,305 05
Labor, collecting and disposing of house offal.....	211,328 17
Labor and stock at stables and yards.....	67,315 91
Hired teams on ashes.....	120,401 87
Hired teams on offal.....	4,322 30
Contractor on ashes, East Boston, Brighton, West Roxbury, Dorchester and Hyde Park.....	245,336 13
Contractor on offal, East Boston, Brighton, West Roxbury, Dorchester and Hyde Park.....	90,455 33
Holidays, pay allowed.....	70,797 41
Vacations, pay allowed.....	25,633 36
Grain.....	18,044 95
Hay and straw.....	25,586 24
Medical attendance and pay allowed injured employees.....	12,950 17
Veterinary services and medicines.....	773 29
Outside wheelwright, blacksmith, horseshoeing, etc.....	13,734 47
Labor, stock and wheelwright, blacksmith, painting, etc.....	62,807 49
Repairs to stables and sheds.....	4,585 99
Fuel.....	5,494 95
Gas.....	546 80
Electric light and power.....	3,916 90
Printing, stationery, office supplies, etc.....	5,611 18
Automobile expense.....	5,262 49

AUTOMOBILES.	South Boston. Electric Truck.	Brighton. Ford.	West Roxbury. Ford.	Dorches- ter. Ford.	Roxbury. Ford.	South End. Ford.	Total.
Cost.....		\$553 00	\$553 00				\$1,106 00
Supplies.....		49 86	102 04	\$189 02	\$283 44	\$187 52	821 88
Repairs.....	\$917 00	6 67	25 57	231 55	217 37	12 22	1,410 38
Tires and tubes.....			12 81	13 07	27 25	25 41	78 54
Gasolene.....			74 00	239 24	213 35	155 35	681 94
Chauffeurs.....	1,026 00						1,026 00
Storage.....	61 25	76 50					137 75
Totals.....	\$2,004 25	\$696 03	\$767 42	\$672 88	\$741 41	\$380 50	\$5,262 49

Telephone tolls and rentals.....	770 93
Annuities.....	300 00
Retired veterans' pensions.....	12,966 64
Retired laborers' pensions.....	2,506 04
Horses.....	14,060 00
Rent.....	1,020 00
Tolls and fares.....	378 00
Total.....	\$1,536,633 27

Construction and Repair Shops, 1921-22.

For work done and materials furnished for other services and for the Sanitary Service the different shops received and expended the following amounts:

	STOCK AND LABOR.		Total.
	Other Services.	Sanitary.	
Wheelwright.....	\$5,324 26	\$15,530 16	\$20,854 42
Blacksmith.....	8,762 51	15,780 73	24,543 24
Paint.....	6,760 00	10,167 54	16,927 54
Harness.....	4,460 95	8,651 73	13,112 68
Horseshoeing — South End....	2,362 50	4,830 99	7,193 40
Horseshoeing — West End....	1,800 00	3,882 50	5,682 50
Horseshoeing — Roxbury.....	600 00	1,429 39	2,029 39
Totals, stock and labor....	\$30,070 22	\$60,273 04	\$90,343 26

Foremen	\$2,094 04	
Clerk	920 43	
Stockkeeper	1,494 45	
Express teamster	1,040 00	
Allowed time, holidays	5,066 94	
Allowed time, vacations	2,622 00	
Medical attendance	899 17	
Electric power	606 44	
Auto truck	419 45	
		\$15,162 92
Total cost, maintenance		\$105,506 18
Income from other services		30,070 22
Net cost of shops		<u>\$75,435 96</u>

Detailed Accounts of Amounts Paid to the Sanitary Service During Year Ending January 31, 1922, by the Payment of Bills and Pay Rolls.

For repair and construction work	\$25,511 44
For horseshoeing	5,029 25
For hay, straw, grain and board and care of horses	1,040 00
For feeders, stablemen and watchmen	1,040 00
For furnishing of prison vans and printing	34 66
	<u>*\$32,655 35</u>

* Includes bill paid by the County of Suffolk for stock and labor, \$2,500.84; Lighting Service, \$9.79; Penal Institutions, \$74.50.

Horseshoeing by Services.

KINDS AND STYLES.	Sanitary Service.	Street Cleaning and Oiling Service.	Paving Service.	Sewer Service.	Water Service.	County of Suffolk.	Totals
Plain shoes	4,537	3,332	440	204	445	127	9,175
Bar shoes	311	198	23	121	41	.....	694
Leathers	4,086	3,065	189	147	202	57	7,746
Resets	749	667	49	37	64	49	1,615
Pads	147	408	99	96	46	76	872
Springs . . . . .	.....	.....	2	.....	.....	.....	2

Cost of Horseshoeing.

	Division Shops.	Outside Shops.
Stock	\$3,749 38	\$6,746 66
Labor	5,063 50	
Totals	\$8,812 88	\$6,746 66

Amount Expended for the Collection and Disposal of Ashes, Garbage, Waste and Rubbish by Districts, 1921-22.

Districts.	Popula- tion.	ASHES.		GARBAGE.		WASTE AND RUBBISH.		Total Cost.	Total Cost per Capita.
		Cost.	Per Capita.	Cost.	Per Capita.	Cost.	Per Capita.		
1. South Boston.....	71,006	\$71,904 53	\$1.0115	\$24,588 52	\$0.3463	\$882 00	\$0.0125	\$97,375 05	\$1.37030
2. East Boston.....	64,232	36,271 21	0.5651	11,629 03	0.1811	.....	.....	47,900 24	0.7462
3. Charlestown.....	34,914	42,065 09	1.2050	10,579 29	0.3030	.....	.....	52,644 38	1.5080
4. Brighton.....	42,890	58,527 36	1.3660	15,443 98	0.3601	.....	.....	73,971 34	1.7261
5. West Roxbury.....	59,364	38,096 54	0.6415	17,755 47	0.2991	252 00	0.0042	56,104 01	0.9448
6. Dorchester.....	157,749	146,160 35	0.9206	69,332 38	0.4394	.....	.....	215,492 73	1.3600
7. Roxbury.....	125,465	188,226 42	1.5023	63,804 27	0.5085	9,116 60	0.0613	261,147 29	2.0721
8 and 9. South End and Back Bay,	114,732	200,644 37	1.7488	65,470 24	0.5706	35,665 69	0.2108	301,780 30	2.5302
10. North and West Ends.....	72,817	124,419 47	1.7089	25,033 01	0.3437	8,045 16	0.1105	157,497 64	2.1621
11. Hyde Park.....	18,901	9,061 41	0.4847	4,402 69	0.2858	.....	.....	13,464 10	0.7705
Disposal station.....	.....	76,461 37	.....	74,782 17	.....	2,782 19	.....	154,025 73	.....
Totals.....	762,070	\$991,838 12	.....	\$382,821 05	.....	\$56,743 64	.....	\$1,431,402 81	.....

Force Employed on House Dirt and Ashes January 31, 1922.

CITY FORCE.	Number.	Hired Teams.	East Boston.	Brighton.	West Roxbury.	Dorchester.	Hyde Park.	Total.
Inspectors.....	29	...	...	...	...	...	...	29
Teamsters.....	96	17	5	7	4	29	2	160
Helpers.....	106	34	14	18	9	64	3	248
Dumpers.....	2	...	...	...	...	...	...	2
Totals.....	233	51	19	25	13	93	5	439

Force Employed on House Offal January 31, 1922.

CITY FORCE.	Number.	Hired Teams.	East Boston.	Brighton.	West Roxbury.	Dorchester.	Hyde Park.	Total.
Inspectors.....	10	...	...	...	...	...	...	10
Teamsters.....	43	2	3	4	3	12	1	68
Helpers.....	47	4	6	9	7	19	2	94
Totals.....	100	6	9	13	10	31	3	172

Force Employed on Waste and Rubbish January 31, 1922.

CITY FORCE.	Number.
Inspectors.....	1
Teamsters.....	13
Helpers.....	26
Total.....	40

Amount of House Dirt and Ashes Removed.

YEARS.	Loads.	Cubic Yards.	Tons.
1917.....	231,999	796,633	324,384
1918.....	217,823	776,645	316,482
1919.....	228,095	836,730	340,960
1920.....	288,646	891,042	363,097
1921.....	264,244	967,955	394,435

Amount of House Offal Removed.

YEARS.	Loads.	Cubic Yards.	Tons.
1917.....	40,729	102,449	60,744
1918.....	39,494	96,317	56,836
1919.....	38,054	92,042	54,300
1920.....	40,881	100,865	59,507
1921.....	47,711	118,237	69,182

Amount of Waste and Rubbish Removed.

YEARS.	LOADS.		Cubic Yards.	Tons.
	Paper Carts.	Market Wagons.		
1917.....	3,242	4,888	68,047	8,014
1918.....	3,186	4,823	64,221	7,546
1919.....	3,263	3,739	54,429	6,396
1920.....	3,794	2,717	47,949	5,641
1921.....	3,295	2,306	52,224	6,144

Number of Loads of Material Collected from February 1, 1916, to January 26, 1922.

YEARS.	Ashes.	Offal.	Rubbish.	Total Loads.	Tons.
1917.....	231,999	40,729	9,073	281,801	393,132
1918.....	217,823	39,494	8,009	265,326	380,864
1919.....	228,095	38,034	7,002	273,151	401,656
1920.....	238,646	49,881	6,511	286,038	428,245
1921.....	264,244	47,711	6,786	318,741	469,961

Capacity of the Carts and Wagons Used by Sanitary Service, 1921.

	Pounds.	Cubic Feet.
Single ash carts.....	2,038	67.5
Double ash carts (city).....	4,075	135
Double ash carts (contractor).....	4,075	135
Paper carts.....	1,400	146
Paper wagons.....	2,200	219
Single offal wagons.....	2,260	54
Double offal wagons.....	4,130	94
Auto..... wagons.....	8,150	270

Collected by Contract.

DISTRICTS.	ASHES.				OFFAL.			
	Double Loads.	Auto Loads.	Cubic Yards.	Tons.	Double Loads.	Auto.	Cubic Yards.	Tons.
East Boston.....	11,657	284	62,484	25,462	1,040	.....	4,591	2,708
Brighton.....	13,830	.....	62,400	25,428	2,421	51	9,181	5,416
West Roxbury.....	8,407	.....	37,342	15,216	1,511	43	6,428	2,899
Dorchester.....	26,471	5,842	187,287	76,319	8,480	.....	28,746	16,800
Hyde Park.....	4,039	.....	19,520	7,954	1,063	.....	3,098	1,817
Totals.....	64,404	6,126	369,033	150,379	14,515	94	52,044	29,640

Summary.

MATERIAL.	Cubic Yards.	Tons.
Ashes.....	369,033	150,379
Offal.....	52,044	29,640

Loads and Tonnage of Material Collected, by Districts.

CLASS OF REFUSE.	1. South Boston.										Total Tons. (2,000 Pounds.)	Total Loads.	Cubic Yards.
	2. East Boston.	3. Charlestown.	4. Brighton.	5. West Roxbury.	6. Dorchester.	7. Roxbury.	8-9. South End and Back Bay.	10. North and West Ends.	11. Hyde Park.				
House dirt and ashes:													
Loads.....	25,001	16,382	13,830	13,534	32,313	43,916	59,924	43,359	4,039		264,244		
Tons.....	25,468	16,689	25,428	22,071	76,319	64,840	75,566	54,638	7,954		394,435		967,955
Offal:													
Loads.....	4,052	1,565	2,472	2,158	8,480	8,472	12,349	6,060	1,063		47,711		
Tons.....	4,781	1,846	5,416	3,791	16,800	10,702	14,171	7,150	1,817		69,182		118,237
Waste and rubbish:													
Loads.....	165					986	4,531	1,104			6,786		
Tons.....	136					797	3,997	1,214			6,144		52,224
Totals {	29,218	17,947	16,302	15,692	40,793	53,374	76,809	50,523	5,102		318,741		1,138,416
{ Tons.....	30,385	18,535	30,844	25,862	93,119	76,339	93,734	63,002	9,771		469,761		

Final Disposition of all Material, in Loads and Tons (2,000 Pounds),
Collection by the Sanitary Service, February 1, 1921, to January
26, 1922.

CLASS OF REFUSE.	Boston Development and Sanitary Company.	Collected and Disposed of by Contractors.	Total Number of Loads Disposed of.	Total Tons.
House dirt and ashes. {	226,027 320,375	38,217 74,060	264,244	394,435
Offal. {	41,582 56,342	6,129 12,840	47,711	69,182
Waste and rubbish. {	6,786 6,144	..... .....	6,786	6,144
Totals { Loads.	274,395	44,346	318,741	
{ Tons.	382,861	86,900	.....	469,761

NOTE.— First item, loads. Second item, tons.

Cost of Collection and Disposal of Refuse by Contract in the City of Boston for the Year 1921-22.

Contract Districts and Population.	CHARACTER OF REFUSE.	Tons, (2,000 lbs.)	Total Tons.	Cost per Ton by Districts; Collection and Disposal.	COST BY DISTRICTS.			Where Disposed of.
					Cost.	Total Cost.	Total Cost per Capita.	
2.. (64,232)..	{Mixed refuse, principally ashes (no kitchen wastes).....}	25,462	.....	\$1 4242	\$36,271 21	.....	.....	Inland dumps.
	{Garbage, principally kitchen wastes.....}	2,708	28,170	4 2923	11,629 03	.....	\$0 7457	*
				Av. \$1 7004		\$47,900 24		
4.. (42,890)..	{Mixed refuse, principally ashes (no kitchen wastes).....}	25,428	.....	\$2 3013	\$58,527 36	.....	.....	Inland dumps.
	{Garbage, principally kitchen wastes.....}	5,416	30,844	2 8515	15,443 98	.....	.....	*
				Av. \$2 3981		73,971 34	1 7200	
5.. (33,035)..	{Mixed refuse, principally ashes (no kitchen wastes).....}	15,216	.....	\$1 2343	\$18,791 07	.....	.....	Inland dumps.
	{Garbage, principally kitchen wastes.....}	2,899	18,115	3 0229	8,763 55	.....	.....	*
				Av. \$1 5266		27,554 62	0 8341	
6.. (157,749)..	{Mixed refuse, principally ashes (no kitchen wastes).....}	76,319	.....	\$1 9151	\$146,160 35	.....	.....
	{Garbage, principally kitchen wastes.....}	16,800	.....	4 7221	79,332 38	.....	.....
	{Store refuse and paper.....}	.....	93,119	.....	.....	225,492 73	1 4294	Boston Development and Sanitary Company.†
11 Hyde Park (18,901)	{Mixed refuse, principally ashes (no kitchen wastes).....}	7,954	.....	\$1 1355	\$9,061 41	.....	0 7130	Inland dumps.
	{Garbage, principally kitchen wastes.....}	1,817	9,771	2 4230	4,402 69	.....	.....	*
				Av. \$1 3771	.....	13,464 10	.....
316,807	Totals.....	.....	180,019	.....	.....	\$388,383 03	\$1 2259	

* Remove beyond city limits and presumably fed to swine.

† Contract for disposal.

Total as above..... \$388,383 03

Add total of day labor table (between pages 528 and 529)..... 1,148,250 24

Net amount of appropriation..... \$1,536,633 27

Cost of Collection and Disposal of Refuse by Day Labor Force in the City of Boston for the Year ending January 31, 1922.

Districts and Population.	CHARACTER OF REFUSE.	COST PER TON BY DISTRICTS.					COST OF DISTRICTS.						WHERE DISPOSED OF.
		Tons (2,000 lbs.)	Total Tons.	To Collect.	For Disposal.	Total Collection and Disposal.	To Collect.	Total Cost to Collect.	For Disposal.	Total Cost of Disposal.	Total Cost of Collection and Disposal.	Total Cost per Capita, Collection, and Disposal.	
1..(71,000).....	Mixed refuse, principally ashes (no kitchen wastes) ..	2,468	.....	\$3 1221	\$0 0931	\$3 2152	\$79,512 93	.....	\$2,391 60	.....	.....	.....	Boston Development and Sanitary Company.
	Garbage, principally kitchen wastes.....	4,781	.....	6 4267	.....	6 4267	30,726 16	.....	.....	.....	.....	.....	Boston Development and Sanitary Company.
	Store refuse, principally paper.....	136	.....	6 4853	.....	6 4853	882 00	.....	.....	.....	.....	.....	Boston Development and Sanitary Company.
			30,385	Av. \$3 0603	Av. \$0 0931	Av. \$3 7534		\$111,121 09		\$2,391 60	\$113,512 69	\$1 3743	
3..(34,914).....	Mixed refuse, principally ashes (no kitchen wastes) ..	16,659	.....	\$3 1197	.....	\$3 1197	52,065 09	.....	.....	.....	.....	.....	Boston Development and Sanitary Company.
	Garbage, principally kitchen wastes.....	1,846	.....	7 9371	.....	7 8371	14,467 38	.....	.....	.....	.....	.....	Boston Development and Sanitary Company.
	Store refuse, principally paper.....		18,505	Av. \$3 5895	.....	Av. \$3 5895		66,532 47	.....	.....	66,532 47	1 5074	
				Av. \$3 5895	.....	Av. \$3 5895			.....	.....	
5 (part) and 7..... 151,794	Mixed refuse principally ashes (no kitchen wastes) ..	71,695	.....	\$3 1550	\$0 0018	\$3 1568	\$226,197 89	.....	\$1,334 00	.....	.....	.....	Boston Development and Sanitary Company.
	Garbage, principally kitchen wastes.....	11,594	.....	7 1413	.....	7 1413	82,796 19	.....	.....	.....	.....	.....	Boston Development and Sanitary Company.
	Store refuse, principally paper.....	797	.....	11 7548	.....	11 7548	9,368 60	.....	.....	.....	.....	.....	Boston Development and Sanitary Company.
			84,086	Av. \$3 7811	Av. \$0 0018	Av. \$3 7879		318,362 68	.....	1,334 00	319,626 68	1 2561	
8 and 9..(114,732) ..	Mixed refuse, principally ashes (no kitchen wastes) ..	75,506	.....	\$2 8855	\$0 03434	\$2 9199	\$218,048 85	.....	\$2,595 52	.....	.....	.....	Boston Development and Sanitary Company.
	Garbage, principally kitchen wastes.....	14,171	.....	5 1445	0 1811	5 3256	72,903 27	.....	2,566 97	.....	.....	.....	Boston Development and Sanitary Company.
	Store refuse, principally paper.....	3,997	.....	8 9231	.....	8 9231	35,685 69	.....	.....	.....	.....	.....	Boston Development and Sanitary Company.
			93,734	Av. \$3 4844	Av. \$0 0575	Av. \$3 5419		326,617 81	.....	5,162 49	331,780 30	2 5092	
10..(72,817).....	Mixed refuse, principally ashes (no kitchen wastes) ..	54,638	.....	\$2 5516	.....	\$2 5516	\$139,419 47	.....	.....	.....	.....	.....	Boston Development and Sanitary Company.
	Garbage, principally kitchen wastes.....	7,150	.....	3 5333	.....	3 5333	25,263 47	.....	.....	.....	.....	.....	Boston Development and Sanitary Company.
	Store refuse, principally paper.....	1,214	.....	6 6269	.....	6 6269	8,045 16	.....	.....	.....	.....	.....	Boston Development and Sanitary Company.
			63,002	Av. \$2 7417	.....	Av. \$2 7417		172,728 10	.....	.....	172,728 10	2 1668	
*	Contract, Boston Development and Sanitary Company.....		.....	.....	.....	.....	.....	.....	.....	144,000 00	144,000 00	.....
			
445,262.....	Totals.....		289,742	Av. \$3 4315	Av. \$0 5276	Av. \$3 9636	.....	\$995,362 15	.....	\$152,888 09	\$1,148,250 24	\$2 5788	

* The amount paid to Boston Development and Sanitary Company is for disposal of all refuse collected by the city force and Dorchester contracts. District 6 on page 528.

Total as above.....	\$1,148,250 24
Add total of contract table page 528.....	388,383 03
Net amount of appropriation.....	<u>\$1,536,633 27</u>

Boston Development and Sanitary Company's contract calls for \$166,000, less \$12,000 paid for Ward Street Dump.

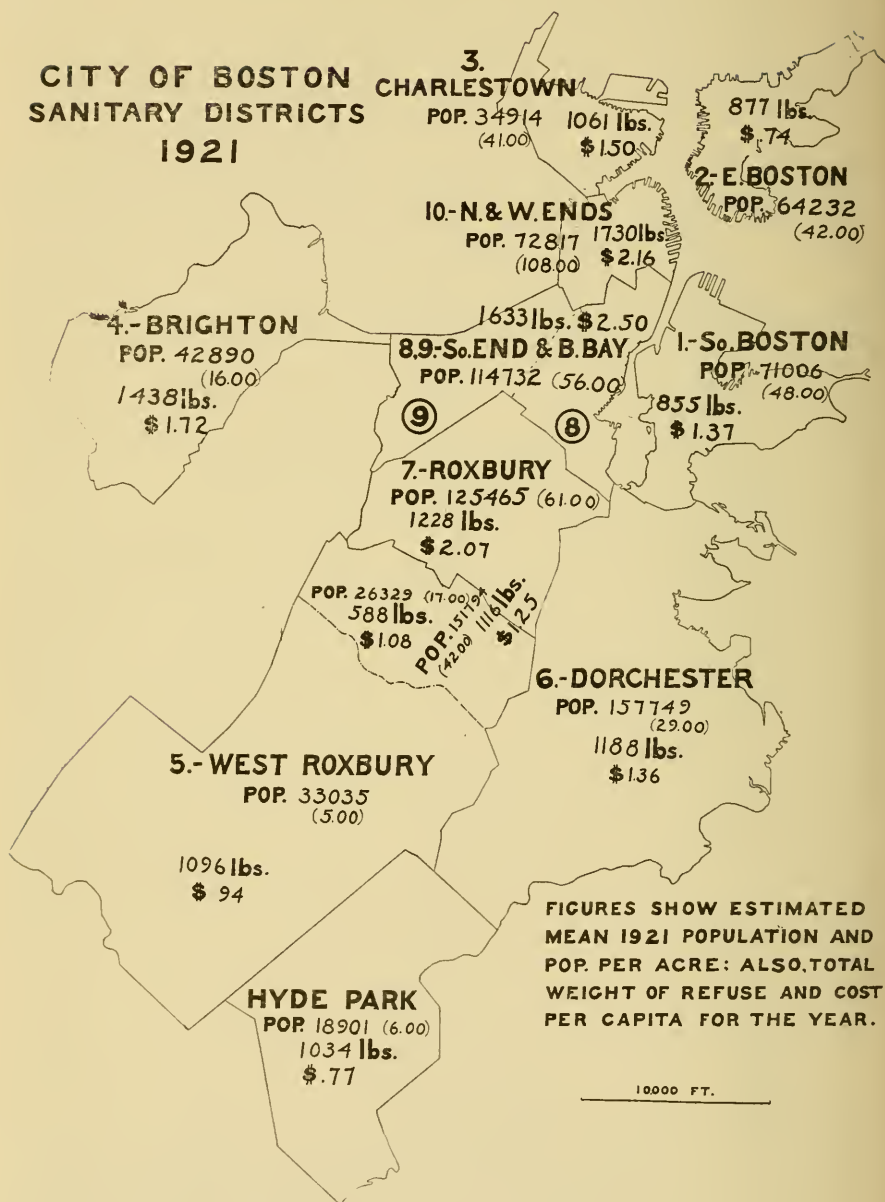
Details of Collected Refuse in Boston for the Year Ending January 26, 1921.

[illegible]

Number of Carts, Wagons and Sleds Used by the Sanitary Service for the Collection of House Dirt and Ashes, Waste and Rubbish and Garbage During the Year Ending January 31, 1922.

Districts.	Ash Carts.			Offal Wagons.				Paper.		Contractors.	
	Wood.			Iron.		Wood.		Carts.	Wagons.		
	Auto.	Single.	Double.	Single.	Double.	Single.	Double.				
1. South Boston.....	1	18	.....	7	.....	1	.....	1	1	16	Pumes.
3. Charlestown.....	.....	12	.....	3	.....	.....	.....	.....	.....	9	.....
7. Roxbury.....	.....	40	7	15	1	5	4	2	1	35	9
8. South End Shop.....	.....	28	.....	7	9	.....	2	2	5	.....	.....
10. North and West Ends.....	.....	37	.....	16	1	1	3	6	10	24	2
8 and 9. South End.....	.....	45	.....	8	.....	.....	.....	.....	2	5	.....
Total number used by Sanitary Service.....	1	180	7	56	11	7	9	11	19	89	11
IN USE BY CONTRACTORS.											
2. East Boston.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	A. DeStefano & Co.
2. East Boston.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	H. Cannon.
4. Brighton.....	.....	.....	9	.....	.....	.....	.....	.....	.....	.....	Frank Shea & Co.
4. Brighton.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	P. F. Donovan.
5. West Roxbury.....	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	T. F. Bryan.
5. West Roxbury.....	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	P. F. Donovan.
6. Dorchester.....	2	23	.....	.....	.....	.....	.....	.....	.....	.....	J. P. McCabe.
6. Dorchester.....	.....	.....	.....	2	12	.....	.....	.....	.....	.....	M. H. Loonie.
11. Hyde Park.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	M. McGinnis & Co.
11. Hyde Park.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	W. B. Downey.
Totals.....	3	180	52	58	23	7	22	11	19	89	11

CITY OF BOSTON SANITARY DISTRICTS 1921



SEWER AND SANITARY DIVISION — STREET CLEANING AND OILING SERVICE.

ITEMS OF EXPENDITURE FOR YEAR 1921.

Street Cleaning Service.

General administration		\$21,284 38
Salary of division engineer (in part),	\$1,406 67	
Salary of supervisor (in part)	1,472 88	
Salary of medical inspector	843 97	
Printing	1,335 42	
Stationery	327 98	
Telephone	515 24	
Postage	99 93	
Transportation	68 38	
Office items and incidentals	64 63	
Annuity, chapter 569, Acts of 1898		
— chapter 132 — 1920	600 00	
Pensions, retired veterans	3,447 32	
Pensions, retired laborers	7,975 82	
Automobile repairs and maintenance	3,126 14	
General expenses other than general administration		145,999 71
Wages of stablemen	\$45,399 48	
Wages of yardmen	5,519 00	
Wages of watchmen	5,144 50	
Wages of foremen's drivers	659 00	
Wages of yard clerks and messengers	4,166 57	
Hay and straw	26,507 07	
Grain	17,479 02	
Gas	29 62	
Electric light	283 78	
Veterinary services, and medicines	1,723 30	
Fuel	887 08	
Horses	12,760 00	
Horseshoeing	7,758 54	
Harnesses, new and repairs	5,445 02	
Wagon and carriage repairs	715 08	
Stable and yards, rent of	1,850 00	
Stable and yards, supplies	2,779 25	
Carried forward	\$139,106 31	\$167,284 09

<i>Brought forward</i>	\$139,106 31	\$167,284 09
Stable and yards, building repairs	3,303 04	
Care of horses	249 00	
Automobile repairs and maintenance	3,341 36	
<hr/>		
Operating expenses		603,660 51
District foremen, salaries of	\$20,476 52	
Inspectors, wages of, on paved streets, crossings, snow work, patrolling, gutters, etc.	28,721 09	
Inspectors, wages of, on ashes and garbage	6,791 53	
Laborers, wages of, on paved streets, crossings, snow work, patrolling, gutters, etc.	336,346 98	
Laborers, wages of, on ashes and garbage	51,284 50	
Hired autos flushing	34,189 75	
Electric car flushing	5,325 00	
Holiday and pay allowed	55,108 51	
Vacations	20,130 78	
Pay allowed injured employees	4,858 86	
Dumps, rent of	268 85	
Snow license	500 00	
Cart repairs	7,698 60	
Water cart repairs	1,486 78	
Tools and repairs	364 33	
Vehicle supplies	628 85	
Sweeping machine repairs	3,895 27	
Push carts and barrels	839 41	
Hoes, shovels, picks, etc.	1,762 04	
Snow plows	193 76	
Flushing machines	661 51	
Push brooms, teamster brooms, etc.	3,768 85	
Machine brooms	4,854 00	
Sand	557 23	
Freight	22 51	
Sand sprinkler repairs	3 08	
Flushing hose	278 29	
Water cart hose	49 17	
Sand barrels	168 00	
Refuse boxes	1,180 69	
Paper cart repairs	30 01	
Automobile repairs and maintenance	11,215 76	
<hr/>		
		<u>\$770,944 60</u>

STREET WATERING AND OILING BRANCH.

General administration		\$4,011 75
Salary of division engineer (in part),	\$260 00	
Salary of supervisor (in part)	272 24	
Salary of general foreman	1,894 36	
Telephone	44 01	
Carfare	1 40	
Advertising	28 00	
Stationery	60 62	
Printing	360 51	
Postage	18 47	
Office items	495 03	
Proportionate share of supervisor's automobile	444 95	
Proportionate share of division engineer's automobile	132 16	
<hr/>		
General expenses other than general administration		1,177 23
Wages of stablemen, watchmen and yardmen	\$193 55	
Hay, straw and grain	220 95	
Wagon and carriage repairs	20 56	
Yard and stable furnishings	72 59	
Automobile repairs and maintenance	669 58	
<hr/>		
Operating expenses		139,927 83
Chief inspector	\$1,417 84	
Inspectors:		
Water	7,334 78	
Oil	383 39	
Sanitary Service	5,282 66	
Sanding	87 39	
Labor:		
Sanitary Service	129 00	
Sanding	1,149 00	
Calcide	48 00	
Water	508 92	
Oil	763 38	
Holiday and allowed time	296 04	
Vacations	443 56	
Hired teams, water	45,803 92	
Hired autos, water	24,242 75	
Electric car sprinkler, water	5,310 00	
Hired teams, calcide	12 00	
Road oil	36,414 70	
<hr/>		
Carried forward	\$129,627 33	\$145,116 81

<i>Brought forward</i>	\$129,627 33	\$145,116 81
Stand pipe, repairs and maintenance,	2,432 43	
Tools and repairs	2 85	
Water cart repairs	1,229 83	
Electric car hydrants, established, repairs and maintenance	1,961 73	
Bicycle, new and repairs	54 35	
Sand	1,540 11	
Calcide	1,052 90	
Gasolene	1,128 04	
Auto oil	125 17	
Vehicle supplies	7 50	
Automobile repairs and maintenance	765 59	
	<hr/>	
Total		<u><u>\$145,116 81</u></u>

DISTRIBUTION OF EXPENDITURES.

Removing snow	\$29,501 69	
Snow work on crossing and gutters,	8,480 44	
		\$37,982 13
Flushing streets		59,925 63
Street patrolling by teams	\$35,239 54	
Cleaning of subway passage	1,386 54	
Street patrolling by push carts	168,863 57	
Collection of refuse boxes	7,801 28	
		213,290 93
Cleaning of paved streets	\$286,269 25	
Cleaning of macadam streets	72,806 70	
Cleaning of public alleys	1,989 23	
		361,065 18
Sanding of slippery streets		6,235 02
Work performed for Sanitary Service		92,445 71
Total expenditure, Street Cleaning Branch		\$770,944 60
Oiling of public streets and ways		45,185 11
Watering of public streets and ways		94,087 97
Work performed for Sanitary Service		5,843 73
		<u>\$916,061 41</u>

Summary.

ITEMS.	STREET CLEANING BRANCH.			STREET OILING AND WATERING BRANCH.		
	1919-20.	1920-21.	1921-22.	1919-20.	1920-21.	1921-22.
Labor.....	\$527,877 17	\$608,491 42	\$602,839 45	\$20,567 53	\$19,887 03	\$20,730 19
Teaming.....	47,339 31	49,084 41	39,514 75	53,912 03	73,209 57	75,368 67
Supplies and repairs.....	123,602 40	139,258 22	128,590 40	47,674 82	93,666 60	49,017 95
Totals.....	\$698,818 88	\$796,834 05	\$770,944 60	\$122,154 38	\$186,763 20	\$145,116 81

Cost of Snow Work and Volume Removed.

DISTRICTS.	Snow Crossings and Gutters.	Snow Removal.	Total * Cost.	Single Loads Snow Removed. †	Cubic Yards of Snow Removed.	Cost per Cubic Yards of Snow Removed.
South Boston.....	\$2,536 27	\$750 75	\$3,287 02	252	756	\$0 993
East Boston.....	708 48	1,775 47	2,483 95	678	2,034	872
Charlestown.....	661 44	702 71	1,364 15	232	696	1 009
Dorchester.....	839 15	166 52	1,005 67	64	192	867
Roxbury.....	492 24	.....	492 24	.....	.....	.....
Uptown.....	.....	.....	.....	.....	.....	.....
Downtown.....	149 22	9,812 33	9,961 55	8,943	26,829	365
Back Bay.....	156 05	281 80	437 85	156	468	602
North and West Ends.....	438 26	7,522 54	7,960 80	4,048	12,144	619
Patrol System.....	2,499 33	8,489 57	10,988 90	4,592	13,776	616
Totals.....	\$8,480 44	\$29,501 69	\$37,982 13	18,965	56,895	.....
Average.....	.....	.....	.....	.....	.....	\$0 518

* Includes Sundays, paid time and one half; holidays, double time.

† Street Cleaning loads, 3 cubic yards each.

Snow Summary.

ITEMS.	Cost of Inspection, Labor and Teaming.	Cost of all Other Charges.	Total Cost.	AMOUNT OF SNOW REMOVED.		Cost per Load.	Cost per Cubic Yard.
				Loads.	Cubic Yards.		
Snow removal.....	\$22,453 03	\$7,048 66	\$29,501 69	18,965	56,895	\$1 555	\$0 518
Snow crossings and gutters.....	8,083 39	317 05	8,480 44	.....	.....	.....	.....
Totals.....	\$30,536 42	\$7,365 71	\$37,982 13	.....	.....	.....	.....

Machine Sweeping of Paved Streets and Macadam Gutters.

DISTRICTS.	PAVED STREETS.		MACADAM GUTTERS.		TOTAL PAVED STREETS AND MACADAM GUTTERS.	PAVED STREETS.					MACADAM GUTTERS.					PAVED STREETS AND MACADAM GUTTERS.					LOADS OF DIRT REMOVED.						CUBIC YARDS OF DIRT REMOVED.								
	PAVED STREETS.		MACADAM GUTTERS.			PAVED STREETS.					MACADAM GUTTERS.					PAVED STREETS AND MACADAM GUTTERS.					PAVED STREETS.		MACADAM GUTTERS.		PAVED AND MACADAM.		PAVED STREETS.			MACADAM GUTTERS.			PAVED STREETS AND MACADAM GUTTERS.		
	Square Yards Cleaned Once.	Equivalent Mileage of 30-foot Roadway Cleaned Once.	Square Yards Cleaned Once.	Miles (Linear) Cleaned Once.		Square Yards Cleaned Once.	Inspection, Labor and Teaming.	All Other Charges.	Total Cost.	Cost per Mile 30-foot Roadway Cleaned.	Cost per Thousand Square Yards Cleaned.	Inspection, Labor and Teaming.	All Other Charges.	Total Cost.	Cost per Mile Cleaned Once.	Cost per Thousand Square Yards Cleaned Once.	Inspection, Labor and Teaming.	All Other Charges.	Total Cost.	Cost per Thousand Square Yards Cleaned Once.	Loads.	Cost per Load.	Loads.	Cost per Load.	Loads.	Cost per Load.	Total Cubic Yards.	Per Thousand Square Yards.	Cost per Cubic Yard Removed.	Total Cubic Yards.	Per Thousand Square Yards.	Cost per Cubic Yard Removed.	Total Cubic Yards.	Per Thousand Square Yards.	Cost per Square Yard Removed.
South Boston.....	21,481,590	1,220.544	6,926,712	1,311.877	28,408,362	\$17,219.03	\$5,824.55	\$23,044.18	\$18.8802	\$1.0727	\$9,847.12	\$2,800.80	\$12,647.92	\$9.641	\$1.825	\$27,066.75	\$9,625.35	\$35,692.10	\$1.256	4,295	\$5.365	2,268	\$5.576	6,563	\$5.438	8,500	.309	\$2.682	4,536	.654	\$2.788	13,126	.462	\$2.710	
East Boston.....	12,124,678	688.902	5,561,552	1,041.96	17,626,230	15,064.17	3,722.06	18,786.17	27.2694	1.5494	14,363.33	3,337.17	17,700.50	16.987	3.216	29,427.50	7,059.17	36,486.67	2.70	4,190	4.483	2,924	6.053	7,114	5.128	8,380	.691	2.241	6,848	1.062	3.026	14,228	.897	2.564	
Charlestown.....	18,918,242	1,074.9	2,384,165	451.546	21,362,407	10,156.39	7,667.35	26,763.74	24.8986	1.4147	6,200.32	2,457.36	8,657.62	19.172	3.631	25,356.71	10,664.65	35,421.36	1.662	2,393	11.184	730	11.859	3,123	11.342	4,786	.252	5.592	1,460	.612	5.929	6,246	.293	5.671	
Dorchester.....	4,452,200	252.965	2,827,401	535.492	7,279,601	7,412.31	2,934.60	10,346.91	46.906	2.323	7,336.27	3,142.36	10,478.57	19.608	3.706	14,748.68	6,076.90	20,825.48	2.86	1,522	6.798	2,276	4.603	3,798	5.483	3,044	.683	3.399	4,552	1.609	2.301	7,596	1.043	2.741	
Roxbury.....	17,382,070	987.617	3,706,743	702.034	21,088,813	16,771.74	4,464.71	21,236.45	21.5027	1.221	4,057.32	1,176.61	5,235.93	7.458	1.412	20,829.06	5,643.32	26,472.38	1.255	2,670	7.953	652	8.03	3,322	7.968	5,346	.307	3.974	1,304	.351	4.018	6,644	.315	3.984	
Uptown.....	26,762,558	1,179.69	2,668,294	505.311	23,430,852	17,355.16	4,367.71	21,722.81	18.414	1.046	6,200.52	1,626.26	7,826.80	15.486	2.933	23,655.62	5,993.99	29,549.61	1.261	2,704	8.033	1,632	7.684	3,736	7.969	5,408	.26	4.016	2,064	.773	3.792	7,472	.314	3.954	
Downtown.....	64,862,734	3,685.382	.....	.....	64,862,734	51,607.98	17,878.80	69,486.78	18.851	1.071	.....	.....	.....	.....	.....	51,607.98	17,878.80	69,486.78	1.071	6,317	10.999	.....	.....	6,317	10.999	12,634	.192	6.499	.....	.....	.....	12,634	.192	5.499
Back Bay.....	8,174,000	464.431	3,544,193	671.248	11,718,193	7,575.85	2,053.54	9,629.39	27.337	1.178	8,204.33	2,055.03	10,259.36	15.284	2.864	15,780.16	4,106.57	19,888.75	1.697	804	11.975	1,100	9.326	1,904	10.445	1,608	.196	5.988	2,200	.62	4.663	3,808	.324	5.222	
North and West Ends.....	70,753,111	4,020.06	.....	.....	70,753,111	68,060.93	15,215.48	73,285.41	18.229	1.036	.....	.....	.....	.....	.....	58,069.93	15,215.48	73,285.41	1.036	8,883	8.25	.....	.....	8,883	8.25	17,766	.251	4.125	.....	.....	.....	17,766	.251	4.125
Totals.....	238,911,183	13,574.491	27,557,000	5,219.468	266,470,243	\$210,233.10	\$64,668.74	\$274,301.84	.....	.....	\$56,209.21	\$16,697.49	\$72,806.70	.....	.....	\$266,442.31	\$80,666.23	\$347,108.54	.....	33,778	.....	10,982	.....	44,760	.....	67,556	.....	.....	21,964	.....	.....	89,520	.....	.....
Averages.....	.....	.....	.....	.....	.....	.....	.....	.....	\$20.207	\$1.146	.....	.....	.....	\$13.940	\$2.641	.....	.....	.....	\$1.302	.....	\$8.12	.....	\$6.629	.....	\$7.754	.....	.282	\$4.66	.....	.796	\$3.314	.....	.836	\$3.877

Cost of Maintaining Horses on a Basis of 365 Days per Year.

DISTRICTS.	SOUTH BOSTON.		EAST BOSTON.		CHARLESTOWN.		DORCHESTER.		ROXBURY.		SOUTH STABLE.		WEST STABLE.		TOTALS.	
	16.25		13.68		12.24		15.58		18.10		70.37		31.83		178.05	
ITEMS.	Cost per Horse		Cost per Horse		Total Cost per Year.		Cost per Horse		Total Cost per Year.		Cost per Horse		Total Cost per Year.		Cost per Horse	
	Total	per Day.	Total	per Day.	Total	per Day.	Total	per Day.	Total	per Day.	Total	per Day.	Total	per Day.	Total	per Day.
Labor.....	\$3,784 00	\$0 637	\$3,782 04	\$0 7571	\$2,244 00	\$0 5021	\$4,432 71	\$0 7791	\$4,643 75	\$0 7028	\$14,935 78	\$0 581	\$6,435 00	\$0 5538	\$40,257 28	\$0 619
Hay and grain.....	4,192 29	7064	2,971 20	5948	309 00	7404	3,607 15	6634	3,978 93	6022	15,934 51	6203	7,705 30	6631	41,698 38	0641
Fuel.....	81 96	0143	69 33	0138	157 18	0351	195 68	0343	90 67	0137	.....	.....	.....	.....	597 82	0088
Light.....	70 40	0118	54 32	0108	29 62	0066	36 86	0064	65 91	0099	73 00	0028	25 55	0021	355 66	0054
Rent and taxes.....	250 00	0421	671 98	1345	.....	.....	150 00	0263	.....	.....	.....	.....	.....	.....	1,071 98	0164
Yard and stable repairs.....	16 00	0026	.....	.....	24 00	0053	314 00	0551	97 24	0147	152 39	0059	23 81	002	627 44	0093
Yard and stable furnishings.....	149 96	0252	270 39	0541	153 30	0343	355 54	0624	129 89	0196	1,513 80	0589	176 06	0151	2,748 94	0422
Veterinary services and supplies.....	94 30	0159	89 44	0199	148 07	0331	175 85	0309	117 56	0177	970 17	0377	383 97	0339	1,989 30	0306
Horseshoeing.....	984 65	1659	770 90	1561	798 64	1787	940 45	1653	1,349 10	2041	4,036 70	1571	1,809 75	1557	10,690 19	1643
Totals.....	\$9,626 56	\$1 622	\$8,679 60	\$1 737	\$6,863 81	\$1 533	\$10,208 24	\$1 794	\$10,472 99	\$1 555	\$37,616 35	\$1 464	\$16,569 44	\$1 426	\$100,036 99	\$1 339

OILING OF MACADAM STREETS.
Showing Cost of Labor, Teaming, Oil, Etc., Including Supervision.

DISTRICTS.	Total Area, Square Yards.	Equivalent Mileage 30-foot Roadway.	Area Oiled Once, Square Yards.	DATES OF OILING.		Cost per Square Yards Covered Once.	Total Cost.	Gallons Used.	Gallons per Square Yard.
				First.	Last.				
South Boston.....	386,293	21.94	203,971	April 12	Aug. 26	\$0 0129	\$2,637 62	23,607	.1157
East Boston.....	447,030	25.39	274,453	April 26	July 26	0156	4,306 09	34,544	.1251
Charlestown.....	153,538	8.72	186,944	April 14	July 29	0128	2,401 74	1,6933	.0905
Brighton.....	615,046	34.94	498,800	April 12	Oct. 27	0065	4,767 77	50,142	.1025
West Roxbury.....	1,259,971	71.58	476,555	April 15	Oct. 21	0103	4,934 96	51,528	.1081
Dorchester.....	1,728,161	98.19	811,690	May 4	Sept. 6	0103	8,428 45	94,564	.1164
Roxbury.....	951,663	54.07	884,933	April 4	Oct. 21	0097	8,620 82	95,064	.1074
South End, Back Bay and part of Roxbury.....	351,349	19.96	295,128	April 12	Sept. 2	0171	5,064 42	43,918	
Hyde Park.....	338,990	19.26	342,843	May 2	Sept. 29	0117	402,324	39,197	
Totals.....	6,232,041	354.09	3,975,317	.....	.....	.....	\$45,185 11	449,497	
Averages.....	.....	.....	.....	.....	.....	\$0 0113	.....	.....

AREA WATERED 1921.

Showing Area Watered, Total Cost and Cost per Square Yard.

Districts.	Total Square Yards.	Equivalent Mileage, 30-foot Roadway.	DATES OF WATERING.		AUTO DAYS WORKED.		Cats Sprinkler Days.	Cart Days Worked.	Cost.	Cost per Square Yard.
			First.	Last.	City.	Hired.				
South Boston.....	508,351	28.883	April 15	Oct. 31	.....	.....	.....	1,137½	\$11,078 98	\$0 021
East Boston.....	214,651	12.196	April 26	Oct. 31	.....	.....	.....	310	3,179 96	014
Charlestown.....	284,672	16.174	April 20	Oct. 30	.....	.....	.....	528½	6,271 05	022
Brighton.....	148,240	8.422	April 15	Oct. 31	.....	.....	.....	456½	5,875 17	039
West Roxbury.....	187,570	10.657	April 15	Oct. 31	.....	.....	177	540½	7,027 40	037
Dorchester.....	247,295	14.05	April 15	Oct. 31	.....	.....	.....	888	8,212 16	033
Roxbury.....	282,544	16.053	April 15	Oct. 31	.....	.....	177	792½	10,299 65	036
South End and part of Roxbury.....	636,710	36.125	April 15	Oct. 31	.....	.....	177	626½	11,286 25	017
City Proper.....	597,250	33.93	April 15	Oct. 31	.....	989½	.....	.....	25,226 92	042
Hyde Park.....	107,440	6.104	April 2	Oct. 31	.....	.....	.....	463½	5,630 43	052
Totals.....	3,214,723	182.654	.....	.....	.....	989½	.....	5,713½	\$94,087 97	\$0 029
Averages.....										

Oil Bought During 1921.

Standard Oil Company, 449,497 gallons, \$36,414 70.
 Contract awarded to Standard Oil Company, \$0.081 per
 gallon applied.

APPENDIX E.

REPORT OF THE DIVISION ENGINEER OF
THE WATER DIVISION.

February 1, 1922.

To the Commissioner of Public Works:

I respectfully submit the following report of the operations, income and expenditures of the Water Division for the past year.

The pipe laying work done again accurately reflects the general economic conditions; 2.33 miles were laid and 7.40 miles were relaid. This work was divided as follows: Approximately 4,000 feet of pipe were laid, on account of new building construction, in extension of existing distribution system. Approximately 8,000 feet in anticipation of permanent paving, in extension of the high service supplying sprinkler systems and fire pipes, and for the improvement of the domestic service. The balance of the pipe laying, approximately 7.5 miles, consisted of relaying mains inadequate to furnish a sufficient fire supply.

Another index of the lack of development existing throughout the city for the past four years is the number of service pipes laid each year:

In 1921, 294 services were laid.

For the past four years the average per year was 213.

For the year 1917, 645 were laid.

For the period 1912 to 1916 the average was 1,330.

It is encouraging to be able to state that a marked increase in activity, as shown by new service pipes installed, has been in evidence during the latter part of the last year.

Two hundred and thirty linear feet of 30-inch pipe was laid in Harrison avenue on the bridge over the Boston & Albany Railroad and the New York, New Haven & Hartford Railroad connecting the two ends of the 30-inch line laid in 1916-17. The completion of this main affords a second high service supply to the city

proper and insures an adequate supply for the high service area in the event of a failure of the 42-inch main in Huntington avenue, Clarendon street, Newbury street, etc.

An innovation was made in the practice of the Water Service by the relaying of 2,500 linear feet of 24-inch pipe (laid in 1887) with 36-inch pipe, in Perkins street, West Roxbury, from Prince street to a point near the Jamaica way. The 24-inch pipe was salvaged by burning out the joints with an oxy-acetylene torch, the average time per joint being twenty minutes. The old pipe was laid in sand and gravel and was found to be in practically perfect condition and entirely suitable for service in a new location. The total cost of the 36-inch line was \$46,356.91; the value of the 24-inch pipe removed is credited in the department accounts at \$23,374.35.

One thousand four hundred linear feet 16-inch high service pipe was laid in Dudley street easterly from Blue Hill avenue. This work is part of a contract for laying 2,400 linear feet extending from Blue Hill avenue to Magnolia street. The work was unfinished when winter set in. When completed it will greatly strengthen the high service system in that section of the city.

The larger part of the relaying done to improve the fire protection was as follows:

In South End between Dover street and Massachusetts avenue: 3,296 linear feet 6 inches relaid with 12 inches; 2,409 linear feet 6 inches relaid with 10 inches; 1,155 linear feet 6 inches relaid with 8 inches; 374 linear feet 4 inches relaid with 6 inches.

In Roxbury: 4,837 linear feet 6 inches relaid with 12 inches.

In East Boston: 5,286 linear feet 6 inches relaid with 10 inches.

In Dorchester: 5,300 linear feet 6 inches relaid with 10 inches and 12 inches.

Relaying must constitute a part of the yearly program of work, at least until the entire system is strong enough to satisfy the reasonable demands of the Fire Department. This fact is apparent when the increase in the amount of water necessary to supply the modern motor pumping engines over that required fifty years ago, is considered.

Other improvements in the distribution system are:

The section in Hyde Park between River street and

the Neponset river, from the Dorchester town line westerly to Massasoit street, was greatly strengthened by laying 4,100 linear feet of 8-inch 10-inch and 12-inch pipe, affording a second feed main and abolishing a number of dead ends of small pipes which have given much trouble in the past from freezing.

Three thousand one hundred and fifty linear feet of laying and relaying was done in the Bellevue Hill District, West Roxbury, affording a second supply main from the reservoir on the hill to the Metropolitan Hill District and to Hyde Park, as well as greatly improving the fire protection.

Twenty-two thousand six hundred and sixty-nine linear feet of 6-inch and 12-inch pipe was cleaned by the National Water Main Cleaning Company of New York in East Boston and 11,721 feet of 12-inch pipe was cleaned by the same company in Brighton; large quantities of sediment and incrustation being removed in all cases with the result that the original carrying capacity of the pipes was restored.

During the year the Pitometer Company completed the water waste survey of the South Boston and the South End Distribution Systems unfinished in 1920, and also completed a survey of the high service of the city proper, Roxbury and the greater part of Dorchester, together with a small portion of the Roxbury low service. This work (exclusive of that in South Boston and the South End) covered 269 miles of mains and resulted in a saving of 5,586,000 gallons of water per day through the actual stoppage of existing leaks located by the Pitometer Company and repaired by men of the Water Service. None of these leaks gave surface indications and all of them would have remained undetected without a special survey.

Further detailed information regarding the operations of the Distribution, Income and Meter Branches will be found in the tables published herewith.

WATER DIVISION, 1921-22.

FINANCIAL STATEMENT.

RECEIPTS.

Sales of water	\$3,407,579 24
Service pipes and repairs	19,734 81
Fire, motor, and elevator pipes and repairs	18,044 84
Refund of appropriation for Income Branch	8,000 00
Fees for summonses	4,646 53
Labor, materials for miscellaneous work	3,686 04
Sales of old materials	3,023 89
Water posts and street watering hydrants and repairs	2,259 80
Shutting off and letting on water for nonpayment	1,700 00
Damages to automobiles	1,441 07
Relocating main pipes	934 64
Interest on bank deposits	649 90
Damages to hydrants	523 76
Sales of merchandise	195 72
Board of horses	180 00
Sales of gasoline	173 01
Rent of conduit, Congress street	100 00
Testing meters	79 76
Refund on pump	33 03
Delivering water	29 73
Refund on cement	21 75
Refund on bill	13 41
Refund on freight	6 00
Use of meter	2 00

Total income	\$3,473,058 93
Transferred to City Loan account to pay Hyde Park water debt	\$16,000 00
Transferred to City Loan account to pay general city debt	145,000 00
Transferred to credit of Collecting Department	34,596 76
	<hr/> 195,596 76
Net income	\$3,277,462 17

EXPENDITURES.

Current expenses and extensions	\$1,232,418 76
Interest on water loans	41,852 66
Refunded water rates	928 47
Metropolitan water assessment	1,958,528 33
	<hr/> 3,233,728 22
Total expenditures, 1921-22	3,233,728 22
Balance, January 31, 1922	<hr/> \$43,733 95

Details of expenditures under appropriation for current expenses and extensions for the fiscal year ending January 31, 1922. (From revenue.)

EXTENSION.			
Construction of new mains	\$77,235	21	
Replacement of old mains	172,471	19	
New hydrants	4,583	84	
	<hr/>		
Total extension			\$254,290 24
MAINTENANCE.			
Office and Engineering Branch:			
Salaries and wages	\$51,263	12	
Traveling expenses	962	97	
Printing, stationery and postage	2,535	76	
Miscellaneous	991	64	
	<hr/>		
			\$55,753 49
Income Branch:			
Salaries and wages	\$122,799	78	
Traveling expenses	1,967	03	
Printing, stationery and postage	5,202	27	
Miscellaneous	1,928	38	
	<hr/>		
			131,897 46
Distribution Branch:			
Salaries and wages	\$31,779	49	
Traveling expenses	461	17	
Printing, stationery and postage	1,531	66	
Miscellaneous	1,985	75	
	<hr/>		
			35,758 07
Meter Branch:			
Salaries and wages	\$15,291	03	
Traveling expenses	26	05	
New meters and setting	39,487	53	
Meters, repairing, resetting, testing, etc.	36,013	17	
Printing, stationery and postage	371	57	
Shops	16,530	85	
Investigations	42	30	
Holidays	5,191	62	
Laborers' vacations	1,393	71	
Miscellaneous	1,183	56	
	<hr/>		
			115,531 39
Waste Prevention Branch:			
Salaries and wages	\$9,132	76	
Traveling expenses	365	55	
Printing, stationery and postage	26	40	
Miscellaneous	58	95	
	<hr/>		
			9,583 66
Inspection of castings	1,291	73	
Damages	4,459	80	
Yards	61,566	58	
Shops	22,065	99	
	<hr/>		
Carried forward	\$437,908	17	\$254,290 24

<i>Brought forward</i>	\$437,908 17	\$254,290 24
Stables:		
Labor	\$11,593 64	
Hay and grain	4,384 39	
Board of horses	2,192 78	
Vehicle repairs	992 47	
Horseshoeing	873 89	
Veterinary services	543 84	
Harness repairs	149 65	
Light, \$91.96; Building re- pairs, \$44.27	136 23	
Equipment	30 25	
Coal	28 14	
Miscellaneous	47 51	
	<hr/>	
Tools and repairs	20,972 79	
Main pipe relocation	10,563 51	
Main pipe repairs	9,463 99	
Service pipes, new	73,986 40	
Service pipes, changes in size and location	33,611 87	
Service pipes, repairs	7,173 01	
Hydrant changes in style and location	71,229 32	
Hydrant, repairs	21,329 91	
Water posts, new	47,562 54	
Water posts, changes in location	434 68	
Water posts, repairs	186 04	
Fountains, new	1,474 55	
Fountains, changes in style and location	409 70	
Fountains, furnishing ice	181 23	
Fountains, repairs	1 20	
Holiday	2,143 87	
Investigations	41,938 28	
Shutting off and letting on water	1,172 61	
Accommodation work	18,051 26	
Work on account of Office and Engineers' Branch (by Distribution Branch)	4,077 06	
Work on account of Income Branch (by Dis- tribution Branch)	19 25	
Work on account of Meter Branch (by Dis- tribution Branch)	457 77	
Work on account of Waste Prevention Branch by Distribution Branch)	858 04	
Work on account of new meters (by Distribu- tion Branch)	11,904 05	
Work on account of meter repairs (by Dis- tribution Branch)	5,734 57	
Launch "Watercrest," repairs and supplies	7,363 78	
Pensions paid Civil War Veterans	533 03	
Pensions paid retired laborers	7,770 31	
Vacations allowed laborers, mechanics, etc	17,885 56	
Compensation allowed injured employees	15,704 61	
Emergency service	4,330 97	
Harbor service	29,138 26	
Taxes	5 25	
Medical inspector	204 40	
Bridge Service	500 00	
Pitometer waste surveys	220 98	
Breed's Island tower	33,166 67	
Delivering water	1 12	
Garage	1 00	
	<hr/>	
<i>Carried forward</i>	\$943,103 31	\$254,290 24

<i>Brought forward</i>	\$943,103 31	\$254,290 24
Automobiles	37,505 64	
	<hr/>	
Total maintenance		980,608 95
Merchandise sold	\$7,082 45	
Stock consigned to junk	1,842 07	
	<hr/>	
Stock purchased		8,924 52
		302,338 77
		<hr/>
Less stock used and disposed of		\$1,546,162 48
		313,743 72
		<hr/>
Total expenditures from appropriation for current expenses and extensions		<u>\$1,232,418 76</u>

Comparative Table of Receipts and Expenditures.

Receipts

	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.	1921-22.
Sales of water.....	\$2,906,569 76	\$2,947,210 88	\$2,923,719 09	\$2,859,707 92	\$3,037,974 66	\$2,872,867 89	\$2,998,922 73	\$3,244,542 57	\$3,364,937 04	\$3,407,579 24
Other receipts.....	75,674 49	84,389 48	69,922 86	84,977 77	71,374 55	79,223 75	50,529 81	54,111 33	64,598 71	65,479 69
	\$2,982,244 25	\$3,031,600 36	\$2,993,641 95	\$2,944,685 69	\$3,100,349 21	\$2,952,091 64	\$3,049,452 54	\$3,298,653 90	\$3,429,535 75	\$3,473,058 93
Transfers by City Auditor.....						* 4,826 39				
	\$2,982,244 25	\$3,031,600 36	\$2,993,641 95	\$2,944,685 69	\$3,100,349 21	\$2,956,918 03	\$3,049,452 54	\$3,298,653 90	\$3,429,535 75	\$3,473,058 93
Balance, beginning of year.....	\$64,521 97	\$274,580 54	\$340,819 49	\$184,470 24	\$135,014 40	\$87,146 19	\$25,087 31	† \$3,487 83		
Balance, end of year.....	274,580 54	340,819 49	† 184,470 24	† 135,014 40	† 87,146 19	† 25,087 31	† 3,487 83			43,733 95
Transferred to Collecting Department.....				24,500 00	25,774 00	27,264 14	26,165 88	30,317 74	33,570 54	34,596 76
Transferred to city loan account.....	4,434 20	17,000 00	353,650 26	259,046 70	407,823 86	16,000 00	124,263 96	390,095 22	209,958 26	161,000 00
Transferred to appropriation for service mains and relaying mains.....		200,000 00	200,000 00			35,000 00	30,000 00			

Expenditures.

	1912-13.	1913-14.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.	1919-20.	1920-21.	1921-22.
Current expenses.....	† \$835,072, 00	\$899,338 91	\$894,170 14	\$904,135 19	\$917,823 64	\$1,045,543 65	\$1,055,842 87	\$1,010,634 32	\$1,253,166 33	\$1,232,418 76
Service and relaying mains.....		85,945 40	128,584 36	49,455 84	47,868 21	97,058 88	51,599 48	3,487 83		
Metropolitan water assessment.....	1,792,123 83	1,342,127 65	1,676,038 11	1,665,006 20	1,669,432 79	1,752,004 76	1,741,008 84	1,805,104 07	18,85,924 91	1,958,528 33
Interest.....	137,875 37	118,673 48	94,615 02	91,259 22	87,866 59	80,494 28	71,268 00	61,162 73	45,874 33	41,852 66
Refunded water rates.....	2,680 28	1,275 97	933 31	738 38	628 33	611 20	962 99	1,339 82	1,041 38	928 47
	\$2,767,751 48	\$2,948,361 41	\$2,794,340 94	\$2,710,594 83	\$2,723,619 56	\$2,975,712 77	\$2,929,682 18	\$2,881,728 77	\$3,186,006 95	\$3,233,728 22

* Transfer from Reserve Fund.

† Balance of appropriation for service mains and relaying mains.

‡ Amount expended for current expenses and extensions; there being one appropriation only.

COST OF CONSTRUCTION AND CONDITION OF WATER DEBT.

Cost of construction to February 1, 1922	\$18,477,849 17
Cost of construction to February 1, 1921	18,223,558 93
Increase during the year	<u>\$254,290 24</u>
Outstanding loans February 1, 1921, at 3½ per cent	\$5,000 00
Outstanding loans February 1, 1921, at 4 per cent	741,350 00
	<u>\$746,350 00</u>
Outstanding loans February 1, 1922, at 3½ per cent	\$5,000 00
Outstanding loans February 1, 1922, at 4 per cent	604,350 00
	<u>609,350 00</u>
Decrease during the year	<u>\$137,000 00</u>
The Water Sinking Fund February 1, 1921 was	\$746,350 00
The Water Sinking Fund February 1, 1922, was	609,350 00
Decrease during the year	<u>\$137,000 00</u>
Net Water Debt February 1, 1921	\$314,000 00
Gross Water Debt February 1, 1922	\$907,350 00
Less Sinking Fund February 1, 1922	609,350 00
	<u>298,000 00</u>
Decrease during the year	<u>\$16,000 00</u>
Stock on hand February 1, 1921	\$423,096 00
Stock on hand February 1, 1922	385,879 68
Decrease during the year	<u>\$37,216 32</u>
Cochituate Water Sinking Fund receipts, 1921-22:	
Interest on investments	\$24,604 28
Interest on bank deposits	3,421 45
	<u>\$28,025 73</u>
Cost of existing works on January 31, 1922:	
Pipe yards and buildings	\$94,832 16
Engineering expenses	57,873 58
Distribution system (additions during the year, \$254,290.24)	17,857,143 43
Hyde Park waterworks	468,000 00
	<u>\$18,477,849 17</u>

Automobiles.

Dept. No.	Description.	Price.	Registration, Licenses, Numbers.	Tires and Tubes, New and Repairs.	Gasolene, Oils, Greases.	Storage.	Repairs and Supplies.	Chauffeurs' Wages.	Heat and Light.	Totals.
83	Truck, emergency ¹.....	.....	.....	\$241 51	\$405 64	.....	\$788 13	\$4,212 00	.....	\$5,647 28
96	Truck, general work.....	.....	\$2 00	206 26	485 79	.....	225 70	1,404 00	.....	2,323 75
99	Truck, general work ².....	.....	.....	50 11	131 38	.....	215 82	.....	.....	397 31
100	Roadster, engineer in charge.....	.....	10 00	71 40	244 52	.....	189 79	1,404 00	.....	1,919 71
108	Truck, general work ³.....	.....	.....	17 91	92 91	.....	116 66	.....	.....	227 48
110	Roadster, superintendent, distribution branch.....	.....	12 00	116 50	69 22	.....	219 50	.....	.....	417 22
111	Truck, general work ⁴.....	.....	.....	39 81	84 47	.....	86 93	.....	.....	211 21
116	Truck, general work ⁵.....	.....	75	27 51	130 08	.....	359 33	.....	.....	517 67
118	Truck, Hyde Park district.....	.....	4 00	.....	22 96	\$120 00	68 14	.....	.....	215 10
121	Truck, general work ⁶.....	.....	.....	135 81	126 63	.....	123 47	.....	.....	385 91
122	Truck, plumbers ⁷.....	.....	2 00	112 12	209 23	.....	307 69	.....	.....	631 04
125	Roadster, division engineer.....	.....	14 00	134 12	134 04	221 50	530 20	.....	.....	1,023 86
126	Truck, West Roxbury district.....	.....	6 75	56 06	231 63	12 00	401 22	.....	.....	707 66
128	Touring car, engineer, District No. 2.....	.....	16 00	71 05	189 07	.....	453 74	.....	.....	729 86
129	Truck, East Boston district.....	.....	12 00	29 57	141 57	.....	104 42	.....	.....	287 56
130	Truck, general work.....	.....	2 00	119 63	282 22	.....	395 19	1,404 00	.....	2,203 04
132	Truck, general work.....	.....	2 00	33 69	265 02	.....	606 07	1,404 00	.....	2,310 78
133	Truck, meter branch.....	.....	2 50	63 70	269 78	.....	285 36	.....	.....	621 34

134	Truck, meter branch.....	8 00	94 20	227 47	.....	165 13	.....	494 80
135	Truck, Brighton district.....	4 00	128 96	238 24	180 00	204 70	.....	732 90
136	Truck, West Roxbury district.....	6 00	173 07	337 30	108 00	219 11	.....	843 48
137	Truck, plumbers.....	4 00	170 08	301 20	.....	267 44	.....	742 72
138	Truck, meter branch.....	4 00	57 35	234 00	.....	506 25	.....	801 60
139	Roadster, foreman, Charlestown district.....	14 00	51 78	84 89	.....	86 97	.....	237 64
140	Truck, auto repair service.....	2 00	44 44	37 08	.....	796 02	.....	879 54
142	Roadster, engineer meter branch.....	10 00	77 43	172 90	.....	151 74	.....	412 07
143	Roadster, foreman, West Roxbury district.....	14 00	41 71	125 46	144 00	42 61	.....	367 78
144	Roadster, foreman, Brighton district s.....	14 00	61 33	143 81	144 00	135 62	.....	498 76
145	Roadster, foreman, Dorchester district.....	10 00	40 17	91 57	.....	45 23	.....	186 97
146	Truck, shut-off gang.....	2 00	125 36	310 02	.....	200 04	1,404 00	2,041 42
147	Roadster s.....	10 00	35 82	90 20	.....	186 50	.....	322 52
148	Roadster, foreman, city proper, Roxbury and South Boston.....	12 00	93 65	228 94	.....	212 33	.....	546 92
149	Truck, Dorchester district.....	2 00	58 28	196 72	.....	53 01	1,404 00	1,714 01
150	Truck, meter branch.....	4 00	60 77	258 49	.....	79 54	.....	402 80
151	Truck, meter branch.....	6 00	99 14	175 25	.....	155 76	.....	1,251 15
152	Truck, high pressure fire service w.....	4 00	16 04	32 91	.....	80 61	.....	133 56
153	Truck, waste water survey.....	4 00	92 96	283 08	.....	106 41	1,404 00	2,705 45

Automobiles—Concluded.

Dept. No.	Description.	Price.	Registration, Licenses, Numbers.	Tires and Tubes, New and Repairs.	Gasoline, Oils, Greases.	Storage.	Repairs and Supplies.	Chauffeurs' Wages.	Heat and Light.	Totals.
154	Truck, general work	\$559 84	\$4 75	\$87 37	\$246 10	.....	\$58 36	\$1,404 00	.....	\$2,360 42
155	Truck, Dorchester district	656 79	6 00	05	116 76	.....	32 60	.....	.....	812 20
156	Roadster, supervisor of automobiles	352 00	20 00	05	60 17	.....	29 81	.....	.....	462 03
157	Truck, meter readers	411 00	4 00	.....	38 91	.....	22 71	.....	.....	476 62
158	Truck, plumbers	341 00	2 00	13 07	21 56	.....	87 87	.....	.....	465 50
159	Truck, emergency	3,258 98	2 00	2 61	.....	.....	1 09	.....	.....	3,264 68
160	Roadster, foreman, Brighton, district... Pitometer Company's automobile (used on waste survey)	321 75	.....	.....	13 65	.....	90	.....	.....	336 30
	Garage, labor and supplies .....	.....	.....	91 76	212 16	.....	238 70	.....	.....	542 62
	Automobile, repair shops .....	.....	.....	.....	25	.....	3,317 71	.....	\$1,272 31	4,590 27
	Totals	\$7,531 36	\$258 75	\$3,244 21	\$7,795 80	\$929 50	\$16,325 27	\$15,444 00	183 48	\$52,984 68

¹ \$844.95 allowed for this car on purchase price of auto No. 159.² \$85 allowed for this car on purchase price of auto No. 156.³ \$85 allowed for this car on purchase price of auto No. 155.⁴ \$90 allowed for this car on purchase price of auto No. 156.⁵ \$90 allowed for this car on purchase price of auto No. 157.⁶ \$200 allowed for this car on purchase price of auto No. 154.⁷ \$100 allowed for this car on purchase price of auto No. 158.⁸ \$155 allowed for this car on purchase price of auto No. 160.⁹ Transferred to Paving Service.¹⁰ Bought from appropriation for High Pressure Fire Service.

INCOME BRANCH.

Statement of Each Year's Water Rates, 1903 to 1922, as of
January 31, 1922.

ACCOUNT OF YEAR.	Amount Assessed.	Amount Abated.	Amount Collected.	Outstanding.
1903.....	\$2,386,428 02	\$58,080 51	\$2,328,347 51	.....
1904.....	2,391,751 16	39,071 22	2,352,679 94	.....
1905.....	2,446,978 39	36,107 08	2,410,871 31	.....
1906.....	2,524,205 25	37,599 28	2,486,605 97	.....
1907.....	2,619,031 00	34,959 33	2,584,071 67	.....
1908.....	2,645,962 55	36,939 32	2,609,023 23	.....
1909.....	2,694,408 57	49,407 44	2,645,001 13	.....
1910.....	2,846,000 66	117,818 49	2,728,182 17	.....
1911.....	2,863,501 75	65,439 47	2,798,062 28	.....
1912.....	3,001,771 87	49,937 87	2,943,402 48	\$8,431 52
1913.....	3,004,331 52	37,213 39	2,954,183 62	12,934 51
1914.....	3,034,885 83	23,521 74	2,970,232 82	41,131 27
1915.....	2,960,797 45	15,084 24	2,902,946 96	42,766 25
1916.....	3,130,580 28	16,118 55	3,058,202 47	56,259 26
1917.....	3,120,870 86	18,912 53	3,035,326 12	66,632 21
1918.....	3,359,683 75	96,725 56	3,186,997 69	75,960 50
1919.....	3,210,036 71	25,090 20	3,090,866 72	94,079 79
1920.....	3,501,919 72	58,887 91	3,333,871 11	109,160 70
1921.....	3,591,287 58	19,065 51	3,063,527 79	508,694 28
1922.....	336,497 61	.....	62,430 35	274,067 26

Elevator, Motor and Fire Services.

Total number of elevator services in use January 31, 1922.....	514
Fire services installed during year.....	105
Total number of fire services in use January 31, 1922.....	2,077
Total number of motor services in use January 31, 1922.....	96
Number of motor services metered.....	20

Complaints and Water Turned Off and On.

Complaints, no force, stoppage, etc.....		759
Water turned off and on:		
Repairs of services.....	5,468	
Vacancy.....	1,511	
First time.....	432	
Non-payment.....	3,469	
Waste.....	7	10,887
Total.....		11,646

METER BRANCH.

Table No. 1.—Statement of Work During the Year.

MAKE.	New Sets.	Discontinued.	CHANGED.		Tested.	Repaired in Shop.	Resets.	Repaired in Service.
			Out.	In.				
Hersey disc.....	1,036	57	3,242	2,408	5,486	2,334	140	294
Worthington disc.....	1,252	20	1,627	2,361	2,274	1,640	286	132
Crown.....	33	4	238	183	476	27	6	40
American.....	96	2	164	126	328	77	8	10
Hersey rotary.....	22	3	139	85	278	96	1	41
Nash.....	11	1	137	49	274	231	3	8
Lambert.....	14	1	60	60	120	104	4	7
Trident.....	1		18	16	36	21	1	1
Keystone.....	10		35	23	70	55	1	3
Empire.....	15		10	1	20	9		
Worthington.....			6	1	12	2		
Hersey detector.....			1	2	10			30
King.....	194	12	558	342	1,118	1,041	22	65
Hersey compound.....				1	8	1		3
Watch dog.....	872	1	18	596	1,386	724	28	4
Metropolitan.....			1					
Totals.....	3,556	101	6,254	6,254	11,896	6,362	500	638

Table No. II.

Meters in Stock February 1, 1922.

MAKE.	DIAMETER IN INCHES.								Totals.
	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	3	4	6	
Crown.....	406	35	57	7	13	9	4	5	536
Nash.....	56	11	10	2	....	1	....	....	80
Empire.....	10	....	3	1	....	....	....	....	14
Gem.....	....	....	....	....	2	4	6	6	18
Hersey disc.....	631	15	7	7	1	1	1	....	663
Hersey rotary.....	128	2	20	2	4	....	....	1	157
Lambert.....	32	4	2	....	1	....	2	....	41
King.....	143	3	10	1	7	....	....	....	164
Trident.....	12	....	....	....	....	....	....	....	12
American.....	58	5	....	....	....	....	....	....	63
Keystone.....	5	3	....	....	....	....	....	1	9
Watch dog.....	553	145	1	13	16	....	....	....	728
Worthington disc.....	232	4	2	2	7	9	....	....	256
Hersey detector.....	....	....	....	....	....	....	....	1	1
Totals.....	2,266	227	112	35	51	24	13	14	2,742

Table No. III.
Meters in Service February 1, 1922.

MAKE.	DIAMETER IN INCHES.												Totals.
	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2	3	4	6	8	10	12	
Hersey disc.....	42,910	3,013	1,455	1	699	259	110	43	1	...	...	...	48,491
Hersey rotary.....	385	358	227	...	183	161	62	25	13	...	...	...	1,414
Hersey detector.....	...	...	...	...	...	...	3	16	22	12	4	2	59
Crown.....	592	451	313	...	206	174	75	52	10	...	...	...	1,973
Nash.....	420	224	124	...	39	37	3	...	...	...	...	...	847
Lambert.....	321	106	70	...	14	18	...	2	...	...	...	...	531
Trident.....	198	4	4	...	4	5	10	...	1	...	...	...	226
Worthington.....	...	9	30	...	2	8	12	1	...	...	...	...	62
Worthington disc.....	10,274	36	22	...	10	41	...	...	...	...	...	...	10,383
Keystone.....	191	81	22	...	2	2	9	...	1	...	...	...	308
Metropolitan.....	...	12	1	...	...	...	...	...	...	...	...	...	13
American.....	242	485	...	...	...	...	...	...	...	...	...	...	727
Worthington turbine.....	...	...	...	...	...	...	...	1	...	...	...	...	1
Empire.....	151	3	2	...	5	...	...	...	...	...	...	...	161
Gem.....	...	...	...	...	...	1	...	...	3	...	...	...	4
Standard.....	6	...	...	...	...	...	...	...	...	...	...	...	6
Watch Dog.....	1,547	105	49	...	12	9	...	...	...	...	...	...	1,722
Thomson.....	6	2	...	...	...	...	...	...	...	...	...	...	8
Union.....	2	1	...	...	...	...	...	...	...	...	...	...	3
King.....	3,561	111	251	...	48	45	...	...	...	...	...	...	4,016
Hersey compound.....	...	...	...	...	...	...	1	7	...	...	...	...	8
B. W. W.....	...	1	...	...	...	...	...	...	...	...	...	...	1
Gamon.....	1	...	...	...	...	...	...	...	...	...	...	...	1
Totals.....	60,807	5,002	2,570	1	1,224	760	285	147	51	12	4	2	70,865

Table No. IV.

Meters Purchased.

MAKE.	DIAMETER IN INCHES.								Totals.
	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	3	4	6	
Hersey disc.....	...	...	...	...	...	...	1	...	1
Worthington disc.....	...	...	...	...	...	10	...	...	10
Hersey compound.....	...	...	...	...	...	...	1	3	4
King.....	...	...	...	1	...	...	...	...	1
Watch dog.....	2,000	250	50	25	25	...	...	...	2,350
Totals.....	2,000	250	50	26	25	10	2	3	2,366

Table No. V.
Meters Condemned.

MAKE.	DIAMETER IN INCHES.							Totals.
	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{2}$	2	3	4	
King.....	4	2						6
Worthington disc.....	4	3						7
Empire.....	8							8
Crown.....	5	2	5	1	2	3	1	19
American.....	3							3
Hersey rotary.....	5	3		1				9
Metropolitan.....		1						1
Nash.....	1							1
Worthington.....		3	4	1				8
Hersey disc.....	6					1		7
Totals.....	36	14	9	3	2	4	1	69

Table No. VI.
Meters Repaired in Service.

MAKE.	Defaced.	Clock Broken.	Spindle Leak.	Coupling Leak.	Miscellaneous.	Totals.
Hersey disc.....	11	63	165	50	5	294
Worthington disc.....	3	8	94	26	1	132
Crown.....	3	21	13	3		40
American.....	1		6	2	1	10
Hersey rotary.....	4	16	19	2		41
Nash.....			4	2	2	8
Lambert.....			2	5		7
Trident.....			1			1
Keystone.....			1	1	1	3
Detector.....		28			2	30
King.....		3	59	3		65
Hersey compound.....		3				3
Watch dog.....			3	1		4
Totals.....	22	142	367	95	12	638

Table No. VII.
Meter Changes.

MAKE.	METERS OUT.										METERS IN.										Totals.
	DIAMETER IN INCHES.										DIAMETER IN INCHES.										
	½	¾	1	1½	2	3	4	6	Totals.	½	¾	1	1½	2	3	4	6				
	½	¾	1	1½	2	3	4	6	Totals.	½	¾	1	1½	2	3	4	6				
King.....	437	18	79	6	18	558	211	17	80	4	18	12	342			
Hersey disc.....	2,796	233	131	36	17	19	9	1	3,242	1,787	434	128	25	16	17	1	2,408			
Worthington disc.....	1,599	8	9	.....	9	2	.....	.....	1,627	2,286	14	9	12	26	14	.....	2,361
Nash.....	84	33	16	2	2	.....	.....	.....	137	2	26	17	1	3	.....	.....	49
Empire.....	9	.....	.....	.....	.....	.....	.....	.....	10	1	.....	.....	.....	.....	.....	.....	1
American.....	107	57	.....	.....	.....	.....	.....	.....	164	79	47	.....	.....	.....	.....	.....	126
Hersey rotary.....	34	40	30	19	11	4	1	.....	139	4	28	18	22	12	1	.....	85		
Crown.....	80	54	40	19	21	12	10	2	238	10	106	29	17	9	3	7	2	183			
Keystone.....	23	11	.....	.....	.....	.....	.....	1	35	15	7	.....	.....	1	.....	.....	23
Lambert.....	35	17	6	1	1	.....	.....	.....	60	41	13	5	1	.....	.....	.....	60
Trident.....	14	1	.....	.....	1	2	.....	.....	18	13	1	.....	.....	1	1	.....	16
Watch dog.....	16	2	.....	.....	.....	.....	.....	.....	18	511	44	33	4	4	.....	.....	596
Worthington.....	.....	.....	4	1	.....	1	.....	.....	6	.....	.....	.....	.....	1	.....	.....	1
Detector.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	2	2
Metropolitan.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Hersey compound.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals.....	5,234	475	316	84	80	40	20	5	6,254	4,960	737	319	86	91	36	20	5	6,254			

Table No. VIII.
Causes for Meters Changed.

MAKE.	Test.	Not Registering.	No Force.	Stoppage.	Enlarged.	Spindle Leak.	Coupling Leak.	Frost.	Set Backwards.	Relocated.	Clock Broken or Defaced.	Totals.
Hersey disc.....	222	1,750	26	2	3	456	161	368	10	1	243	3,242
Hersey rotary.....	18	91	2	...	...	8	1	6	...	...	13	139
Crown.....	26	98	43	...	...	19	8	15	2	5	22	238
Nash.....	20	66	...	...	...	22	11	12	1	...	5	137
Lambert.....	9	19	3	...	...	17	2	4	1	...	5	60
Trident.....	13	...	1	...	...	3	...	...	...	...	1	18
Worthington.....	1	3	...	...	...	1	...	...	...	...	1	6
Worthington disc.....	74	835	5	3	2	315	71	254	11	...	57	1,627
Keystone.....	1	24	...	2	...	1	1	3	...	...	3	35
American.....	16	98	3	...	...	19	7	10	1	...	10	164
Empire.....	1	5	2	...	...	2	...	...	...	...	...	10
King.....	17	288	3	1	...	146	21	67	2	...	13	558
Hersey detector.....	1	...	...	...	...	...	...	...	...	...	...	1
Watch dog.....	2	4	...	...	...	1	3	8	...	...	...	18
Metropolitan.....	...	1	...	...	...	...	...	...	...	...	...	1
Totals.....	421	3,282	88	8	5	1,010	286	747	28	6	373	6,254

Table No. IX.
Meters Applied.

MAKE.	DIAMETER IN INCHES.						Totals.
	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	3	
Hersey disc.....	911	61	41	12	7	4	1,036
Worthington disc.....	1,238	1	3	7	3	...	1,252
King.....	167	3	21	2	1	...	194
American.....	80	16	...	...	...	...	96
Trident.....	...	...	...	...	...	1	1
Hersey rotary.....	2	12	8	...	...	...	22
Nash.....	3	6	1	1	...	...	11
Keystone.....	6	4	...	...	...	...	10
Lambert.....	10	2	1	1	...	...	14
Crown.....	10	4	3	9	1	6	33
Empire.....	15	...	...	...	...	...	15
Watch dog.....	822	24	12	8	6	...	872
Totals.....	2,364	133	90	40	18	11	3,556

WASTE PREVENTION BRANCH.

The following tables gives in detail the operations of this branch during the past year:

Table I.

Premises examined.....	11,482
Special examinations.....	310
Waste reports.....	1,989
Re-examinations.....	1,671
Found repaired.....	1,324
Not repaired.....	347

Table II.

DEFECTIVE FIXTURES.	
Tank fixtures leaking.....	817
Faucets.....	934
Pipes inside.....	145
Pipes outside.....	91
Metered premises leaking.....	425
Gates leaking.....	10
Wilful waste.....	3
Fountains leaking.....	4

DISTRIBUTION BRANCH.

Table No. 1.

Showing Length of Water Pipes and Connections Owned and Operated by the Public Works Department, Water Division (Water Service) and Number of Valves in Same January 31, 1922.

DIAMETER OF PIPES IN INCHES.																	Totals.
48	42	40	36	30	24	20	16	14	12	10	8	6	4	3	2		
Length owned and operated January 31, 1921 (feet)	10,607	15,683	16,081	37,132	93,223	79,090	86,466	269,954	5,041	1,469,580	412,920	834,996	1,195,717	100,105	7,022	5,791	4,639,408
Gate valves in same	9	4	8	18	59	66	73	610	19	3,676	1,378	2,818	3,773	597	15	12	13,135
Air valves in same	13	3	8	27	106	48	41	56	...	37	1	4	1	...	...	...	345
Blow-offs in same	1	4	3	8	35	21	46	63	...	152	43	107	119	...	6	1	664
Length laid and sold during year 1921-22.				2,511	250	101	204	2,221	...	18,844	16,305	11,951	909	23	98	...	53,420
Gate valves in same				3	1	1	2	3	...	93	46	50	19	1	...	...	214
Air valves in same				1	...	...	...	2	...	2	...	5	...	...	...	...	13
Blow-offs in same				1	...	...	...	...	...	...	...	...	...	...	...	...	11
Length abandoned during year 1921-22. . . . .				...	142	2,533	145	79	...	1,074	478	4,596	29,947	2,914	...	...	41,908
Gate valves in same . . . . .				...	...	2	2	2	...	5	2	12	87	11	...	...	121
Air valves in same . . . . .				...	...	1	1	...	...	...	...	...	...	...	...	...	5
Blow-offs in same . . . . .				...	...	1	...	...	...	3	...	2	6	1	...	...	14
Length owned and operated January 31, 1922 (feet)	10,607	15,683	16,081	39,612	93,331	76,661	86,525	272,096	5,041	1,487,350	428,747	842,351	1,166,679	97,214	7,120	5,791	4,650,920
Gate valves in same	9	4	8	18	59	66	72	612	19	3,764	1,422	2,856	3,705	587	15	12	13,228
Air valves in same	13	3	8	30	105	49	42	59	...	38	1	4	1	...	...	...	353
Blow-offs in same	1	4	3	9	34	20	46	65	...	151	43	110	113	55	6	1	661

* 880.85 miles in system.

Table No. II.
Statement of Hydrant, Blow-Off and Reservoir Pipes.

	DIAMETER IN INCHES.								Totals.
	16	12	10	9	8	6	4	3	
Total length connected with system January 31, 1921.....	27	5,566	186	1,890	5,780	64,429	6,594	68	84,540
Length laid and relaid during year.....					103	2,013	18		2,134
Length abandoned during year.....				20	38	1,101	73		1,232
Total length connected with system January 31, 1922.....	27	5,566	186	1,870	5,845	65,341	6,539	68	85,442

Table No. III.

Total Number of Hydrants in System January 31, 1922.

	Lowry.	Boston Lowry.	Boston Post.	Ordinary Post.	Bachelor and Pinneran Post.	Ludlow Post.	Chapman Post.	Coffin Post.	Matthews Post.	Boston.	Totals.
City proper (public).....	494	42	581	281	65					66	1,529
" (private).....	4		9	6						39	58
Roxbury (public).....	368	60	508	453	77					16	1,482
" (private).....	2	1	3	2						10	18
West Roxbury (public).....	48	182	512	851	35					16	1,644
" (private).....				15	1					1	17
Brighton (public).....	34	60	288	484	13					14	893
" (private).....				8						2	10
Dorchester (public).....	220	165	716	1,150	23					22	2,296
" (private).....		1	8	1						4	14
South Boston (public).....	112	24	280	222	7					18	663
" (private).....	3			15						27	45
East Boston (public).....	37	16	232	204	15					6	510
" (private).....	8	1		9						25	43
Charlestown (public).....	98	40	160	49	2					2	351
" (private).....	13	1		37						5	56
Hyde Park (public).....		2	28	261	24	7	138	1			461
" (private).....						13	55		4		72
Deer Island (private).....			1	20							21
Long Island (private).....				6							6
Thompson's Island (private).....				2							2
Gallop's Island (private).....				3						1	4
Rainsford Island (private).....				3						1	4
Quincy.....				9							9
Total number (public).....	1,411	591	3,305	3,955	261	7	138	1		160	9,829
Total number (private and suburban).....	30	4	21	136	1	13	55		4	115	379

Table No. IV.

*Total Number and Aggregate Length of Service Pipes of Various Sizes
Connected with System, January 31, 1922.*

Size.	Total Number.	Aggregate Length in Linear Feet.
$\frac{1}{8}$ -inch.....	6,920	158,386
$\frac{1}{4}$ -inch.....	85,111	2,375,012
$\frac{3}{8}$ -inch.....	3,533	121,018
1-inch.....	5,451	195,958
1 $\frac{1}{4}$ -inch.....	524	15,934
1 $\frac{1}{2}$ -inch.....	1,581	48,279
2-inch.....	2,170	67,777
2 $\frac{1}{2}$ -inch.....	12	267
3-inch.....	951	27,534
4-inch.....	2,480	73,682
6-inch.....	187	22,980
8-inch.....	58	4,059
10-inch.....	12	1,665
12-inch.....	17	3,558
16-inch.....	5	448
Totals.....	109,012	3,116,557

Table No. V.
Fountains in Service January 31, 1922.

	Style B.	Style D.	Style G.	Style H.	Style I.	Style J.	Style K.	Style L.	Style M.	Totals.
City proper.....				7	18	11	....	6	12	54
Roxbury.....	2			4	1	2	2	1	2	14
West Roxbury.....		1		1	....	3	2	1	1	9
Brighton.....				1	....	....	2	3	....	6
Dorchester.....	1		1	1	....	3	1	1	4	12
South Boston.....	1			3	5	5	1	....	2	17
East Boston.....	3			6	....	3	....	1	....	13
Charlestown.....				....	11	5	....	3	2	21
Hyde Park.....	1			1	....	1	....	....	2	5
Totals.....	8	1	1	24	35	33	8	16	25	151

FOUNTAIN DESCRIPTION.

- B. Indicates fountain for beasts only. Continuous flow of water during year.
D. Indicates fountain for man and beast. Automatic fixtures for both.
G. Indicates fountain for man and beast. Hygienic bubble fixture for man. Continuous flow of water for man and beast all the year.
H. Indicates fountain for man only. Water of ordinary temperature. Hygienic bubble fixtures controlled by self-closing cocks. In service during warm weather.
I. Indicates taps on water posts, hydrants and fountains for watering horses.
J. Indicates fountains for man only. Cold water. Hygienic bubble fixtures controlled by self-closing cocks. In service during warm weather.
K. Indicates fountain for man and beast, fitted with automatic fixtures controlled by self-closing cocks. Bubble fixture for man in warm weather. Continuous flow for beasts all the year.
L. Indicates fountain for man and beast, bubble fixtures for man and taps fitted for the purpose of filling pails to water horses. Continuous flow for beasts all the year.
M. Indicates fountain for beasts only, fitted with taps for the purpose of filling pails to water horses. Continuous flow for beasts all the year.

Table No. VI.
Maintenance of Main Pipe.

NATURE OF WORK.	Number of Jobs.	Total Cost.
Box tops renewed.....	21	\$311 31
Cleaning main pipes (by contractors).....	12	731 89
Dead ends blown off.....	105	278 94
Gates leaking at packing.....	68	628 51
Gates examined, inspected, oiled, salted, tested, etc.....	2,118	456 62
Gate locations marked.....	5,944	1,338 05
Gates repaired.....	26	1,289 16
Gate boxes cleaned out.....	51	192 31
Gate box covers (55) and frames (71) replaced.....	126	866 37
Gate boxes renewed.....	399	10,799 90
Gate boxes raised and lowered.....	811	7,535 63
Leaking joints repaired.....	116	2,822 16
Leaks due to settlements and other causes.....	32	2,340 53
Repairs on bridges (on pipes, boxes, etc.).....	18	3,893 55
Repaving (including contractor's miscellaneous jobs).....	161	3,090 17
Miscellaneous jobs.....	11	672 87
Totals.....	10,019	\$37,247 97

Table No. VII.
Hydrants Established and Abandoned.

	ESTABLISHED.								ABANDONED.								
	Lowry.	Boston Lowry.	Boston Post.	Ordinary Post No. 1.	Ordinary Post No. 2.	Bachelor and Finneran No. 1.	Bachelor and Finneran No. 2.	Total.	Lowry.	Boston Lowry.	Boston Post.	Ordinary Post No. 1.	Ordinary Post No.2.	Bachelor Post.	Chapman Post.	Boston.	Total.
City Proper.....	1			1	18	7	33	60	7		27	6	4	11		1	56
Roxbury.....					30	11	63	104	11	3	37	26	7	11			95
West Roxbury.....			1		16		30	47	6	2	9	15		3		2	37
" " (private).....					3		1	4				4					4
Brighton.....		2		1	9		13	25	7	4	8	2	1	2			24
Dorchester.....		1		5	14		17	37	8	5	1	6	5	3			28
South Boston.....					2	2	4	8	3		3	3					9
East Boston.....					9		15	24	1	1	9	9	1	1			22
Charlestown.....					3		2	5		1	1	1		2			5
Hyde Park.....					3		21	24				1			7		8
Rainsford Island (private).....				1				1				1					1
Total, public.....	1	3	1	7	104	20	198	334	43	16	95	69	18	33	7	3	284
Total, private.....				1	3		1	5				5					5

Table No. VIII.
Hydrant Repairs 1921.

CAUSE OF REPAIRS.	Number of Jobs.	Cost.
Boxes raised, lowered, reset, repaired and renewed.....	1,187	\$7,995 74
Barrels changed, relocated, reset and repaired.....	328	2,648 49
Frost.....	31	61 89
Paint worn off.....	5,611	1,709 73
Contractors, corporations, other departments and divisions.....	119	562 40
Street construction and repairs.....	84	1,582 89
Repaving on account of repairs.....	150	1,563 44
Traffic.....	88	945 19
Hydrants inspected, oiled, cleaned, pumped, wasted and cleared off snow.	64,818	14,855 50
Salt delivered to Fire Department, bags.....		2,461 14
Totals.....	72,416	\$34,386 41

Table No. X.
Cost of New Service Pipes Laid.

SIZE.	Number.	Length in Feet.	Material.	Labor, Teaming, etc.	Repaving.	Blasting.	Total Cost.	Average Cost per Service.	Average Cost per Linear Foot.
½-inch.....	282	5,736	\$2,999 35	\$5,324 17	\$440 63	\$545 00	\$9,309 15	\$33 01	\$1 62
¾-inch.....	45	1,138	748 17	1,225 45	76 18	.....	2,049 80	45 55	1 80
1-inch.....	8	158	141 58	164 70	62 55	.....	368 83	46 10	2 39
1¼-inch.....	2	64	53 34	55 86	.....	.....	109 20	54 60	1 71
1½-inch.....	3	69	99 90	76 91	.....	.....	176 81	58 94	2 56
2-inch.....	6	169	268 76	262 85	.....	.....	531 61	88 60	3 15
3-inch.....	9	162	771 77	359 65	70 20	.....	1,201 62	133 51	7 42
4-inch.....	98	1,629	8,613 37	5,858 43	2,209 39	.....	16,681 19	170 22	10 24
8-inch.....	1	.....	64 12	17 66	.....	.....	81 78	81 78	.....
10-inch.....	1	17	244 44	119 81	160 00	.....	524 25	524 25	30 84
Totals...	455	9,142	\$14,004 80	\$13,465 49	\$3,018 95	\$545 00	\$31,034 24		

Table No. XI.
Cost of Service Pipes Abandoned and Plugged.

SIZE.	Number.	Length in Feet.	Material.	Labor, Teaming, etc.	Repaving.	Total Cost.	Credit (Stock Returned).	Net Total Cost.	Average Cost per Service.	Average Cost per Linear Foot.
½-inch.....	1	30	\$0 14	\$13 57	.....	\$13 71	\$2 06	\$11 65	\$11 65	\$0 38
¾-inch.....	145	2,519	77 83	1,532 07	\$301 28	1,911 18	289 94	1,620 84	11 18	64
1-inch.....	4	73	45	15 64	.....	16 09	9 78	6 31	1 58	09
1-inch.....	3	103	95	28 08	.....	29 03	10 82	18 21	6 07	11
1¼-inch.....	2	44	.....	.....	.....	.....	.....	.....	.....	.....
1½-inch.....	5	120	5 91	82 70	.....	88 61	32 24	56 37	11 27	46
2-inch.....	5	78	4 33	80 13	14 58	99 04	19 21	79 83	19 77	45
3-inch.....	3	45	20 78	37 76	.....	58 54	6 55	51 99	17 33	1 16
4-inch.....	6	99	22 02	123 92	.....	145 94	112 02	33 92	5 67	31
Totals....	174	3,171	\$132 41	\$1,913 87	\$315 86	\$2,362 14	\$482 62	\$1,879 12		

Table No. XII.

Cost of Laying New Services, Excavating and Backfilling Done by Applicant.

SIZE.	Number.	Length in Feet.	Material.	Labor.	Teaming.	Repaving.	Total Cost.	Average Cost per Service.	Average Cost per Linear Foot.
$\frac{3}{8}$ -inch.....	46	699	\$406 15	\$163 23	\$60 24	.....	\$629 62	\$13 69	\$0 90
$\frac{1}{2}$ -inch.....	12	171	152 10	41 00	9 58	\$14 70	217 38	18 12	1 27
1-inch.....	3	57	31 66	14 81	3 31	.....	49 78	16 59	87
1 $\frac{1}{2}$ -inch.....	2	49	63 16	11 34	5 21	.....	79 71	39 85	1 63
2-inch.....	3	51	84 86	10 43	6 56	.....	101 85	33 95	1 99
3-inch.....	1	5	93 73	.....	12 47	.....	106 20	106 20	21 24
4-inch.....	5	69	395 34	95 35	23 10	.....	513 79	102 76	7 44
Totals.....	72	1,100	\$1,227 00	\$336 16	\$120 47	\$14 70	\$1,698 33		

Table No. XIII.

Cost of Service Pipes, Replacing Others.

SIZE.	LAID.		ABANDONED AND PLUGGED.		Material.	Labor, Teaming, etc.	Repaving.	Total Cost.	Average Cost per Service.	Average Cost per Linear Foot.
	Number.	Length in Feet.	Number.	Length in Feet.						
$\frac{3}{8}$ -inch.....	33	731	112	2,529	\$300 73	\$539 40	.....	\$840 13	\$25 46	\$1 17
$\frac{1}{2}$ -inch.....	9	210	15	134	84 45	385 70	\$44 57	514 72	56 08	2 45
1-inch.....	19	457	22	503	297 78	739 32	81 18	1,118 28	58 86	2 45
1 $\frac{1}{2}$ -inch.....	9	232	.....	.....	154 11	338 07	312 44	804 62	89 40	3 47
1 $\frac{1}{2}$ -inch.....	17	423	3	126	390 67	835 54	171 50	1,397 71	82 22	3 30
2-inch.....	7	164	1	5	295 96	260 76	133 81	690 53	98 65	4 21
3-inch.....	3	48	3	56	256 41	256 54	65 59	578 54	192 85	12 31
4-inch.....	2	75	2	65	101 62	248 83	63 49	413 94	206 97	5 52
6-inch.....	1	32	1	32	.....	.....	.....	.....	.....	.....
Totals.....	100	2,372	159	3,450	\$1,881 73	\$3,604 16	\$872 58	\$6,358 47		

Table No. XIV.
Service Pipe Repairs 1921.

CAUSE OF REPAIRS.	Number of Jobs.	Cost.
Boxes established, repaired, regulated and renewed.	148	\$1,596 46
Cocks established, repaired and regulated.	120	1,996 29
Gates repaired, raised and lowered.	14	434 48
Electrolysis, ashes and rats.	42	1,334 18
Defective pipes and settlement.	1,078	21,256 61
Pipes regulated.	6	99 57
Repairs on account of contractors, corporations, other departments and divisions.	161	1,283 76
Frost.	34	628 68
Traffic.	15	68 38
Repaved on account of repairs.	568	9,577 54
Rust, dirt and fish.	1,099	4,139 80
Street repairs.	891	5,939 74
Uprights established, renewed, repaired, relocated and regulated,	4,553	2,518 03
Off and on.	6,909	12,046 06
Investigations.	792	3,379 69
Totals.	16,430	\$66,299 27

Table No. XV.
Fountain Repairs 1921.

CAUSES.	Number of Jobs.	Cost.
Defective paving.	3	\$18 48
Defective boxes.	1	34 76
Boxes raised to grade.	2	8 54
New cooler.	1	33 43
Relocated.	1	216 20
Shut off.	2	3 71
Defective cocks.	18	90 53
Leaks.	38	430 84
Hit by vehicles.	29	338 79
Placed tablet on fountain.	1	2 98
Defective frames and covers.	3	53 79
Painting.	2	2 82
Waste pipes filled with dirt.	7	31 74
New brick chambers.	2	173 98
Totals.	110	\$1,440 59

Table No. XVI.

Fountains Established and Abandoned.

STYLE.	Established.	STYLE.	Abandoned.
J.	Huntington avenue at Calumet street, city proper.	K.	Albany street at Dearborn street, Roxbury.
H.	Bayswater street at Thurston street, East Boston.	L.	Spring street at Centre street, West Roxbury.
		J.	Huntington avenue at Tremont street, city proper.
		J.	Tremont street at Mission Church, Roxbury.

Table No. XVII.

Water Posts Established and Abandoned.

ESTABLISHED.	ABANDONED.
East Cottage street, 45 feet west of city greenhouse, Roxbury.	Massachusetts avenue, at Edward Everett square, Roxbury.
Winslow street, 45 feet from Zeigler street, Roxbury...	Winslow street, near Dudley street, at fire station, Roxbury.
	Opposite 82 Orchard street, West Roxbury.
	Blue Hill avenue, at Evelyn street, Dorchester.
	Cleveland circle, at south side of Chestnut Hill avenue, Brighton.

	Cost of Material.	Labor and Teaming.	Total Direct Cost.	Credit Stock Returned.	Net Direct Cost.
Cost of established and abandoned water posts.....	\$479 97	\$358 08	\$838 05	\$108 95	\$729 10

Table No. XVIII.
Water Post Repairs 1921.

CAUSES.	Number of Jobs.	Cost.
Renewed broken arms.....	1	\$4 00
Raised boxes to grade.....	5	26 35
Renewed decayed boxes.....	17	386 06
Renewed defective frames and covers.....	2	20 79
Shut off and let on.....	23	187 23
Relocated.....	6	100 66
Defective paving.....	6	108 99
Leaks caused by defective cocks.....	5	81 76
Leaks caused by defective pipes and valves.....	49	815 80
Hit by automobiles.....	5	130 23
Posts broken.....	2	95 54
Totals.....	121	\$1,957 41

Table No. XIX.
Meters Set for Meter Branch.

NUMBER SET.		Size.	Cost of Material.	Cost of Labor, Teaming and Car Fare.	Total Cost.
Outside.	Inside.				
177.....		$\frac{3}{4}$ -inch....	\$1,472 57	\$2,275 77	\$3,748 34
	3	$\frac{3}{4}$ -inch....	8 72	6 06	14 78
13.....		$\frac{1}{2}$ -inch....	119 63	137 71	257 34
4.....		1-inch....	15 57	76 74	92 31
5.....		1 $\frac{1}{2}$ -inch....	47 72	46 71	94 43
5.....		2-inch....	69 50	96 29	165 79
2.....		3-inch....	20 49	41 42	61 91
206.....	3	.....	\$1,754 20	\$2,680 70	\$4,434 90

Table No. XX.
Meters Repaired for Meter Branch.

CAUSES.	Jobs.	Cost.
Defective boxes.....	195	\$3,014 39
Raised to grade.....	52	371 09
New brick chambers.....	9	1,275 73
New frames and covers.....	24	126 86
Leaking.....	64	218 01
Frozen.....	5	29 74
Relocated.....	3	71 70
Reset.....	34	105 72
Taken out.....	69	162 78
Changed.....	640	1,466 13
Defective paving.....	72	612 47
Abandoned boxes.....	5	11 11
Cleaning boxes.....	6	53 77
Stoppage.....	2	5 68
Testing.....	1	51 29
Totals.....	1,181	\$7,576 47

Table No. XXI.
Standpipes for Street Watering Electric Cars.

ESTABLISHED.

Hyde square, at Perkins street, West Roxbury.

Centre street, at Pond street, West Roxbury.

Centre street, opposite Echo street, West Roxbury.

Table No. XXII.
Machine Shop.
Stock Manufactured from the Rough.

KIND.	Number.	Labor.	37 per Cent Added.	Stock.	Cost Each.	Total Cost.
Batchelder & Finneran hydrant, No. 1. . . .	13	\$27 32	\$37 43	\$56 77	\$94 20	\$1,224 60
Batchelder & Finneran hydrant, No. 2. . . .	244	27 02	37 02	53 71	90 73	22,138 12
8-inch gates.	12	10 10	13 84	26 63	40 47	485 64
16-inch gates.	3	32 29	44 24	86 80	131 04	393 12
$\frac{1}{2}$ -inch sidewalk cocks, new style.	717	69	95	73	1 68	1,204 56
$\frac{3}{4}$ -inch sidewalk cocks, new style.	84	83	1 14	86	2 00	168 00
1-inch sidewalk cocks, new style.	47	1 01	1 38	1 01	2 39	112 33
$\frac{1}{8}$ -inch corporation cocks.	1,045	51	70	25	95	992 75
$\frac{3}{4}$ -inch corporation cocks.	141	81	1 11	37	1 48	208 68
1-inch corporation cocks.	85	96	1 32	66	1 98	168 30
1 $\frac{1}{2}$ -inch corporation cocks.	65	1 20	1 64	1 30	2 94	191 10
$\frac{3}{8}$ -inch coupling nuts.	6,275	05	07	04	11	690 25
1-inch coupling nuts.	100	13	18	10	28	28 00
1 $\frac{1}{2}$ -inch coupling nuts.	36	12	16	21	37	13 32
$\frac{3}{8}$ -inch coupling tubes.	2,151	05	07	03	10	215 10
1 $\frac{1}{2}$ -inch coupling tubes.	259	14	19	11	30	77 70
1 $\frac{3}{4}$ -inch coupling tubes.	493	17	23	18	41	202 13
2-inch coupling tubes.	206	18	25	25	50	103 00
$\frac{1}{8}$ -inch male couplings.	182	12	16	07	23	41 86
$\frac{1}{8}$ -inch bent tubes.	100	10	14	06	20	20 00
2-inch meter nipples.	100	27	37	33	70	70 00
$\frac{1}{8}$ -inch iron plugs.	132	16	22	03	25	33 00
$\frac{3}{4}$ -inch iron plugs.	382	19	26	03	29	110 78
1 $\frac{1}{2}$ -inch iron plugs.	34	28	38	13	51	17 34
Installing bushings in sidewalk uprights. . .	581	10	14	1 17	1 31	761 11
Total.						\$29,670 79

Table No. XXIII.

Machine Shop.

Stock Repaired and Miscellaneous Work.

	Number.	Total Cost.
6-inch gate.....	16	\$46 75
8-inch gates.....	5	15 25
10-inch gates.....	1	4 67
Boston Lowry hydrants.....	9	30 06
Lowry hydrants.....	29	167 29
Ordinary post hydrants.....	149	1,038 53
Accommodation work for other services.....		148 75
Made 36-inch testing cap.....		127 59
Electrical work in various shops, 710 Albany street.....		92 47
Repaired coupling nuts.....	110	16 44
Stock consigned to junk (labor only).....		8 30
Total.....		\$1,696 10

Table No. XXIV.

Blacksmith Shop.

Sharpened 5,077 picks, 648 bars and 1,627 chisels	\$1,879 63
Made 198 various kinds of tools	418 00
Accommodation work for other services	117 52
Repaired 5 various kinds of tools	15 91
	<u>\$2,431 06</u>

Table No. XXV.
Carpenter Shop.
Stock Manufactured.

	Number.	Total Cost.
Boston hydrant boxes at \$8.33.....	8	\$66 64
Blow-off boxes at \$10.48.....	1	10 48
Deacon meter boxes at \$9.19.....	3	27 57
Large gate boxes at \$9.19.....	7	64 33
Lowry hydrant boxes at \$9.....	36	324 00
Meter boxes at \$3.37.....	143	1,196 91
Post hydrant boxes at \$9.83.....	31	304 73
Small gate boxes at \$7.50.....	102	765 00
Boston Lowry hydrant boxes at \$11.75.....	42	493 50
Pieces for raising large gate boxes at \$0.17 per inch.....	112	19 04
Pieces for raising Lowry hydrant boxes at \$0.17 per inch.....	1,216	206 38
Pieces for raising meter boxes at \$0.17 per inch.....	2,449	416 33
Pieces for raising small gate boxes at \$0.17 per inch.....	1,874	318 58
Tops for Boston hydrant boxes at \$1.09.....	6	6 54
Tops for large gate boxes at \$1.09.....	9	9 81
Tops for Lowry hydrant boxes at \$1.21.....	21	25 41
Tops for post hydrant boxes at \$1.21.....	16	19 36
Tops for small gate boxes at \$0.97.....	60	58 20
Made shelves for Meter Department.....	1,870	105 94
Made wooden horses.....	32	40 39
Total.....		\$4,479 14

Table No. XXVI.

Carpenter Shop.

Repairs on buildings in Charlestown yard	\$793 23
Various repairs around yard, 710 Albany street	423 90
General repairs in stable, 710 Albany street	395 84
Repaired 765 tools	374 65
General repairs in Brighton yard	361 12
Repairs in office, 710 Albany street	298 12
Built fence at coal pocket, 710 Albany street	234 29
Repairs in Income Branch, City Hall Annex	152 92
Repairs in machine shop, 710 Albany street	148 37
Made 55 tools	108 97
Repairs on garage, Dorchester yard	104 83
Repairs in garage, 710 Albany street	70 18
Work done for the Pitometer Company	53 78
Four wagon repairs	31 13
Repairs in auto repair shop annex, 710 Albany street	22 39
Boxed patterns for shipping patterns to foundry (Engineer Branch)	18 09
General repairs in meter shop, 710 Albany street	12 96
Repairs in plumbing shop, 710 Albany street	2 19
Repairs in West Roxbury yard	2 08
Total	<u>\$3,609 04</u>

Table No. XXVII.

Plumbing Shop.

Repaired water fixtures in municipal buildings, Public Buildings Department	\$2,157 53
Work done for the High Pressure Fire Service	728 68
Repaired 45 tools	127 53
Repairs in blacksmith shop, 710 Albany street	107 20
Accommodation work for other services	89 91
Repairs in office, 710 Albany street	66 83
Repaired 15 pumps	41 16
Connected new 8-gallon copper boiler in plumbing shop, 710 Albany street	38 23
General repairs in Charlestown yard	36 08
Made 280 lead seals for the Income Branch, City Hall Annex	34 02
Repairs in garage, 710 Albany street	26 98
Made 32 tools	26 40
General repairs in Dorchester yard	15 12
Repairs in machine shop, 710 Albany street	7 63
Work done for the Pitometer Company	7 42
Various repairs around the yard, 710 Albany street	5 62
Built new chimney in auto repair shop, 710 Albany street	3 24
Repaired soil pipe in stable, 710 Albany street	1 55
Total	<u>\$3,521 13</u>

Table No. XXVIII.

Miscellaneous.

Waste survey by the Pitometer Company in Roxbury District,	\$5,042 77
Waste survey by the Pitometer Company in the Central District	3,221 45
Waste survey by the Pitometer Company in the Dorchester District	1,912 09
Waste survey by the Pitometer Company in the South Boston District	462 63
Waste survey by the Pitometer Company at Long Island	45 40
Thirty-four hundred and forty-seven inspections of patch paving	3,170 23
Accommodation work for private persons and corporations	1,354 61
Accommodation work for other services and departments	407 08
General repairs and work done in garage, 710 Albany street	284 90
Repairs and general work in the Charlestown yard	151 37
Repairs in stable, 710 Albany street	111 73
Repairs in carpenter shop, 710 Albany street	106 64
Repaired concrete floor in garage in Dorchester yard	89 26
Delivering water to contractors, corporations and other services,	73 00
General repairs in Brighton yard	72 08
Melted lead pipe pieces into pig lead	70 63
Six Deacon meter boxes abandoned	61 16
Miscellaneous work	54 92
Repaired lights in office, 710 Albany street	10 16
Repairs on tools	9 65
Repairs in auto repair shop, 710 Albany street	8 55
Sanding icy sidewalks at West Roxbury yard	8 08
Repairs in machine shop, 710 Albany street	2 68
Repaired lights in blacksmith shop, 710 Albany street	2 40
Various repairs around yard, 710 Albany street	98 52
Total	<u>\$16,831 99</u>

Cost of Extension of Main Pipe.

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Remarks.
Prescott place.....	Off Prescott street.....	Roxbury.	3	114	\$219 64	\$82 63	.....	\$302 27	Private, macadam.
Bowdoin green.....	From Mallon road.....	Dorchester.	6	85	\$210 32	\$112 88	.....	\$323 20	Public, macadam.
Mechanic street.....	Between Brighton avenue and Cambridge street.	Brighton.	6	207	295 10	100 76	\$14 67	410 53	Private, macadam.
	Totals.....	.....	6	292	\$505 42	\$213 64	\$14 67	\$733 73	
Edinboro street.....	Between 23 and 27.....	City Proper.	8	32	\$88 48	\$54 88	.....	\$143 36	Public, asphalt.
Wilmington avenue.....	From Milton avenue.....	Dorchester.	8	486	982 88	329 25	29 38	1,341 51	Private, clay.
Hallowell street.....	From Oakland street.....	Dorchester.	8	680	1,327 29	628 75	84 32	2,040 36	Public, rocky clay.
Bancroft street.....	From Argyle street.....	Dorchester.	8	174	502 53	192 00	17 99	712 52	Private, unconstructed.
Minton street.....	Between Melvin side terrace and Savin Hill avenue.	Dorchester.	8	72	165 84	72 00	10 22	248 06	Private, unconstructed.
Cedar Grove street.....	From Hallet-Davis street.....	Dorchester.	8	30	123 26	23 50	.....	146 76	Public, macadam.
Chester street.....	Between Rockway street and Chester park.	Dorchester.	8	155	447 56	548 43	81 76	1,077 75	Private, rock, dirt.
Banfield avenue.....	From Woodlawn avenue.....	Dorchester.	8	458	893 18	379 45	45 99	1,318 62	Private, rock, dirt.
Parkvale road.....	Between Church and Weld streets...	West Roxbury.	8	540	1,234 07	466 12	108 59	1,808 78	Private, unconstructed.
Steadman street.....	From Brook road.....	West Roxbury.	8	258	625 89	272 00	15 33	913 22	Private, sand.
Realtown road.....	From Parkvale road.....	West Roxbury.	8	17	101 16	14 62	5 11	120 89	Private, unconstructed.
Hemlock street.....	From Bellevue avenue.....	West Roxbury.	8	153	309 17	109 78	10 22	429 17	Private, clay.
Sturges road.....	From La Grange street.....	West Roxbury.	8	179	411 92	194 90	10 22	617 04	Private, loamy, clay.

Cowing street.....	Between Spinney and Swallow streets, West Roxbury.	8	255	645 54	399 42	75 37	1,120 33	Private, rock.
Mendelssohn street.....	Between Washington street and Nisch avenue.	8	212	293 12	161 99	20 44	475 55	Private, clay.
Brayton road.....	Between Brayton way and end of Main.	8	103	339 70	139 75	.....	479 45	Private, unconstructed.
Huntington avenue.....	Between Collins and Thatcher streets.	8	165	431 67	106 50	10 22	548 39	Public, macadam.
Summer street.....	From Parrott street.....	8	459	974 74	391 35	25 55	1,391 64	Private, rock, clay.
Massasoit street.....	Between Edgewater drive and River street.	8	152	324 28	76 00	10 22	410 50	Public, gravel.
Walter street.....	Between River street and railroad.....	8	120	244 36	107 43	20 44	372 23	Public, gravel.
Mattakeeset street.....	Between Edgewater drive and River street.	8	70	200 44	37 00	7 67	245 11	Public, gravel.
Chester street.....	From Stanley street and railroad.....	8	252	641 41	178 96	20 44	840 81	Private sand.
	Totals.....	8	5,022	\$11,308 49	\$4,881 08	\$609 48	\$16,802 05	
Whitmore street.....	From Kneeland street.....	10	179	\$837 72	\$134 20	\$16 61	\$988 53	Public, asphalt.
Doone avenue.....	Between Stowe and Glen Hill roads.....	10	197	490 26	161 80	7 67	659 73	Private, ash filled.
Partridge street.....	From La Grange street.....	10	48	103 60	249 97	5 75	359 32	Private, dirt.
Liszt street.....	Between Washington street and Nisch avenue.	10	368	834 47	1,025 75	79 21	1,939 43	Private, rock.
Ashmore road.....	From Hyde Park avenue.....	10	23	56 46	16 25	10 22	82 93	Private, sand.
Riverview street.....	Between Stimson and Upland streets,	10	112	324 67	378 75	.....	703 42	Private, gravel.
Holmfield avenue.....	Between Edgewater drive and River street.	10	50	220 51	33 60	10 22	264 33	Public, gravel.
	Carried forward.....	.....	977	\$2,867 69	\$2,000 32	\$129 68	\$4,597 69	

Cost of Extension of Main Pipe.—Concluded.

STREET.	Location.	District.	Size (Inch.)	Feet.	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Remarks.
	<i>Brought forward</i>			977	\$2,867 69	\$2,000 32	\$129 68	\$4,997 69	
Monponsett street.....	Between Edgewater drive and River street.	Hyde Park.	10	387	1,159 67	228 50	25 55	1,413 72	Public, gravel.
Edgewater drive.....	Between Burnah and Massasoit streets.	Hyde Park.	10	990	2,005 36	591 00	122 64	2,719 00	Neponset reservation, sand.
Rutledge road.....	Between Pinewood and Wood avenues.	Hyde Park.	10	265	851 84	316 81	25 55	1,194 20	Private, clay, rock.
	Totals.....		10	2,619	\$6,884 56	\$3,136 63	\$303 42	\$10,324 61	
Clarendon street.....	Between Stanhope and Stuart streets,	City Proper.	12	293	\$1,549 17	\$318 78	\$24 91	\$1,892 86	Public, under construction.
Trinity place.....	Between Stuart and Stanhope streets,	City Proper.	12	257	1,084 71	242 93	25 55	1,353 19	Public, asphalt.
Kneeland street.....	Between Harrison avenue and Whitmore street.	City Proper.	12	184	1,141 75	214 94	45 99	1,402 68	Public, granite block, gravel base.
Commonwealth avenue....	Between Kenmore street and Brookline avenue.	Roxbury.	12	121	500 28	102 85	5 11	608 24	Public, sidewalk, loam, grass.
Norway street.....	Between Massachusetts avenue and Bickerstaff street.	Roxbury.	12	362	1,378 23	558 70	30 66	1,967 59	Public, macadam.
Astor street.....	Opposite No. 41.....	Roxbury.	12	32	68 67	77 50	.....	146 17	Public, macadam.
Wilmington avenue.....	From Nevada street.....	Dorchester.	12	97	270 93	67 21	5 11	343 25	Private, clay.
New England avenue.....	Between Talbot and Southern avenues.	Dorchester.	12	898	2,489 32	682 92	156 56	3,328 80	Private, clay.
Hallett-Davis street.....	Between Hill Top and Cedar Grove streets.	Dorchester.	12	50	188 04	51 44	.....	239 48	Private, unconstructed.

Sanborn avenue.....	Between Welland road and Pomona avenue.	West Roxbury.	12	287	1,170 60	295 00	33 22	1,498 88	Private, gravel, clay.
Hyde Park avenue.....	At Ashmore road.....	West Roxbury.	12	39	275 73	30 95	10 22	316 90	Public, macadam.
Washington Heights avenue.	From Washington street.....	West Roxbury.	12	311	1,040 81	1,249 92	209 51	2,500 24	Private, rock, clay.
Auburn street.....	Between Washington street and Rosindale avenue.	West Roxbury.	12	143	598 67	99 59	25 55	723 81	Public, dirt.
Burton street.....	From Bellamy street.....	Brighton.	12	48	159 61	43 45	14 69	217 75	Private, unconstructed.
Electric avenue.....	At North Beacon street.....	Brighton.	12	28	314 88	134 25	12 78	461 91	Public, macadam.
Corey road.....	Between Belle Vista road and Summit avenue.	Brighton.	12	184	641 19	165 30	28 75	835 24	Private, gravel.
Wood avenue.....	Between Ruskin and Rutledge roads..	Hyde Park.	12	198	525 87	209 40	20 44	755 71	Public, macadam, rock.
Metropolitan avenue.....	Between Vose and Highland streets...	Hyde Park.	12	12	323 68	190 95	23 00	537 63	Public, macadam.
	Totals.....		12	3,544	\$13,722 20	\$4,736 08	\$672 05	\$19,130 33	
Dudley street.....	Between Blue Hill and Brook avenues.	Roxbury.	16	1,136	\$5,556 86	\$1,574 46	\$204 40	\$7,335 72	Public, granite block, gravel base.
Harrison avenue.....	At railroad bridge.....	City Proper.	30	216	6,002 42	1,794 72	.....	7,797 14	Boston & Albany Railroad Bridge.

Cost of Replacement of Main Pipe.

Street.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Original Size. (Inch.)	Remarks.
Bond street	Between Hanson and Milford streets.	City Proper.	6	174	\$481 01	\$142 76	\$30 66	\$654 43	4	Public, asphalt.
Taylor street	Between Milford and Dwight streets.	City Proper.	6	200	833 67	200 60	45 99	1,080 26	4	Public, asphalt.
Newland street	From Concord street	City Proper.	6	27	115 94	14 58	3 20	133 72	4	Public, macadam.
Lexington avenue	From Lexington street	East Boston.	6	36	121 94	36 83	5 11	163 88	4	Private, macadam.
Lexington place	From Lexington street	East Boston.	6	34	111 37	36 83	5 11	153 31	4	Private, macadam.
Everett court	From Everett street	East Boston.	6	16	137 69	14 82	5 11	157 62	4	Private, gravel.
Castle court	From Everett street	East Boston.	6	16	79 46	14 82	2 56	96 84	4	Private, gravel.
Hooten court	From Everett street	East Boston.	6	40	124 31	32 76	2 56	159 63	4	Private, gravel.
Beacon street	At Audubon road	Roxbury.	6	14	110 96	77 00	.....	187 96	6	Public, macadam.
	Totals . . . . .	.....	6	557	\$2,116 35	\$571 00	\$100 30	\$2,787 65		
Hanson street	Between Bond and Tremont streets.	City Proper.	8	422	\$821 76	\$363 45	\$35 77	\$1,220 98	6	Public, macadam.
Pembroke street	Between Shawmut avenue and Tremont street.	City Proper.	8	647	1,616 94	582 72	93 26	2,292 92	6	Public, macadam.
Nazing street	At Maple street	Roxbury.	8	17	87 89	9 88	2 56	100 33	6	Public, macadam.
Schuyler street	Across Maple street	Roxbury.	8	79	370 32	51 10	7 67	429 09	6	Public, macadam.
Colonial avenue	At New England avenue	Dorchester.	8	15	267 68	23 60	5 11	296 39	6	Public, macadam.
Massasoit street	At New England avenue	Dorchester.	8	58	329 34	44 20	5 11	378 65	6	Private, clay.
Hopkins street	At Corbet street	Dorchester.	8	35	130 26	33 43	5 11	168 80	6	Public, macadam.

Lakeville place.....	At Centre street.....	West Roxbury.	8	21	62 00	51 69	116 69	6	Private, dirt.
Rosediff street.....	At Washington street.....	West Roxbury.	8	40	167 22	49 75	216 97	6	Public, macadam.
Congreve street.....	Between South and Centre streets.	West Roxbury.	8	1,145	2,006 33	1,070 66	61 32	6	Public, rock, clay.
Cheshire street.....	From Green street.....	West Roxbury.	8	18	100 40	49 00	149 40	6	Public, macadam.
Gerrish street.....	From Brooks street.....	Brighton.	8	20	81 75	63 38	145 13	6	Private, unconstructed.
Innie road.....	Cambridge street and end of road.	Brighton.	8	604					
High Rock way.....	From Innrie road.....	Brighton.	8	11	1,117 90	585 27	51 10	6	Public, under construction.
Cambridge terrace.....	At Innrie road.....	Brighton.	8	12					
Allston heights.....	From Cambridge street.....	Brighton.	8	218	392 83	214 20	10 22	6	Private, loamy clay.
Chestnut avenue.....	Between Austin and Beaver streets.	Hyde Park.	8	561	1,085 01	462 44	30 66	4 & 6	Public, rock, macadam.
Beaver street.....	Between Gordon avenue and Chestnut avenue.	Hyde Park.	8	496	1,090 65	428 26	25 55	4	Public, rock, macadam.
Mattakeset street.....	Between Edgewater drive and River street.	Hyde Park.	8	533	1,168 57	374 96	28 11	4 & 6	Public, gravel.
Massasoit street.....	Between Edgewater drive and River street.	Hyde Park.	8	643	1,272 94	501 38	33 22	4 & 6	Public, gravel.
Huntington avenue.....	Between Collins and Thatcher streets.	Hyde Park.	8	504	944 81	329 89	66 43	4	Public, macadam.
Parrott street.....	Between Austin and Summer street.	Hyde Park.	8	244	519 61	188 19	10 22	4	Public, macadam.
	Totals.....		8	6,343	\$13,634 21	\$5,480 45	\$471 42	\$19,586 08	
Essex street.....	Between Chauncy and Oxford streets.	City Proper.	10	136	\$105 95	\$513 59		\$619 54	10
West Concord street.....	Between Washington and Tremont streets.	City Proper.	10	1,145	3,048 29	942 50	\$76 65	4,067 44	6
	Carried forward.....			1,281	\$3,154 24	\$1,456 09	\$76 65	\$4,686 98	

Cost of Replacement of Main Pipe.—Continued.

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspe- ction.	Total Cost.	Original Size. (Inch.)	Remarks.
	<i>Brought forward.</i>									
North Anderson street.	Between Cambridge and Fruit streets.	City Proper.	10	352	1,007 85	407 52	66 43	1,481 80	6	Public, macadam.
West Springfield street.	Between Washington and Tre- mont streets.	City Proper.	10	1,220	3,352 79	1,027 03	129 67	4,509 49	6	Public, macadam.
Lexington street.	Between Shelby and Meridian streets.	East Boston.	10	3,393	9,696 85	3,929 11	268 28	13,894 24	6	Public, granite block, gravel base.
Putnam street.	Across Lexington street.	East Boston.	10	43	107 04	33 54	5 11	145 69	6	Public, macadam.
Prescott street.	Across Lexington street.	East Boston.	10	46	129 50	62 27	10 22	201 99	6	Public, granite block, gravel base.
Everett street.	Between Cottage and Jeffries streets.	East Boston.	10	1,685	4,381 15	1,700 04	112 42	6,193 61	6	Public, macadam.
Corbett street.	Between Selden and Nelson streets.	Dorchester.	10	1,200	3,326 83	1,160 80	163 52	4,651 15	6	Public, macadam, rock.
Rockland street.	Between Washington street and Dedham line.	West Roxbury.	10	1,290	3,440 58	1,409 96	94 54	4,945 08	6	Public, macadam, rock.
Oakdale street.	From Green street.	West Roxbury.	10	18	115 44	84 93	.....	200 37	6	Public, macadam.
School street.	At Walnut avenue.	West Roxbury.	10	39	248 24	124 75	.....	372 99	6	Public, macadam.
Cornell street.	Between Washington and Orange streets.	West Roxbury.	10	1,190	2,994 80	198 83	47 27	3,240 90	6	Public, macadam.
Brackett street.	Between Washington and Fan- eul streets.	Brighton.	10	581	1,335 74	579 02	33 22	1,947 98	6	Public, macadam.
Surrey street.	At Market street.	Brighton.	10	48	163 10	98 38	.....	261 48	6	Public, under construction.
Henshaw street.	At Market street.	Brighton.	10	21	103 79	73 25	.....	177 04	6	Public, under construction.

Monponsett street.....	Hyde Park.	10	545	1,189 51	491 32	53 66	1,734 49 4	6	Public, gravel.
Austin street.....	Hyde Park.	10	881	2,447 39	850 77	51 10	3,349 26	6	Public, rock, macadam.
Washington street.....	Totals.....	10	13,833	\$37,194 84	\$13,687 61	\$1,112 09	\$51,994 54		
Washington street.....	Between Rollins and Groton streets.	12	663	\$1,830 07	\$1,202 61	\$45 99	\$3,078 67	8	Public, granite block, gravel base.
Washington street.....	Between Groton and Dover streets.	12	217	917 95	500 85	40 88	1,459 68	6	Public, granite block, gravel base.
Stanhope street.....	Between Morgan street and Trinity place.	12	536	2,058 08	711 43	66 43	2,835 94	8	Public, under construction.
Middlesex street.....	Between Dover and Castle streets.	12	819	2,860 07	942 97	68 99	3,872 03 6	8 & 8	Public, granite block, gravel base.
East Dedham street.....	Between Albany street and Harrison avenue.	12	741	2,309 78	810 13	33 86	3,153 77	6	Public, granite block, gravel base.
Stoughton street.....	Between Harrison avenue and Albany street.	12	745	2,764 54	779 01	40 88	3,584 46	6	Public, macadam.
Georgia street.....	Between Blue Hill and Elm Hill avenues.	12	980	3,197 62	738 02	61 88	3,997 52	6	Public, macadam.
Commonwealth avenue...	Between Kenmore street and Brookline avenue.	12	177	1,042 02	189 20	35 77	1,266 99	6	Public, loam and grass.
Brookline avenue.....	Between Beacon and Newbury streets.	12	151	419 96	335 82	30 66	786 44	8	Public, macadam.
Kenmore street.....	Between Newbury street and Commonwealth avenue.	12	252	1,138 54	287 20	40 88	1,466 62	6	Public, macadam.
Newbury street.....	Between Charlesgate West and Brookline avenue.	12	1,332	4,686 84	1,547 00	132 86	6,366 70	8	Public, bitulithic paving.
Maple street.....	Between Georgia and Seaver streets.	12	1,466	5,095 58	1,070 89	122 64	6,289 11	6	Public, macadam.
Wayne street.....	Between Blue Hill avenue and Maple street.	12	660	2,329 95	465 12	43 44	2,838 51	6	Public, macadam.
Carried forward.....		.....	8,769	\$30,651 00	\$9,580 28	\$765 16	\$40,996 44		

Cost of Replacement of Main Pipe.—Concluded.

STREET.	Location.	District.	Size. (Inch.)	Feet.	Cost of Depart- ment Material, etc.	Cost of Labor.	Cost of Inspe- ction.	Total Cost.	Original Size. (Inch.)	Remarks.
	<i>Brought forward.</i>									
Morton street.	Between River and Sanford streets.	Dorchester.	12	725	2,494 48	864 78	52 38	3,411 64	6	Public, macadam.
Sadden street.	Between Nelson street and Mil- ton avenue.	Dorchester.	12	1,573	5,202 45	1,336 67	199 29	6,738 41	6	Public, macadam.
Ashland street.	Over New York, New Haven & Hartford Railroad bridge.	West Roxbury.	12	183	1,313 93	554 72	45 99	1,914 64	8	Public, macadam.
Auburn street.	Between Bellevue and Roslin- dale avenues.	West Roxbury.	12	249	790 83	193 83	20 44	1,005 10	6	Public, dirt.
Bellevue avenue.	Between Hemlock and Cornell streets.	West Roxbury.	12	336	1,040 67	255 19	8 94	1,304 80	8	Private, dirt.
Linden street.	Between Beech and Cornell streets.	West Roxbury.	12	605	1,775 63	507 44	35 77	2,318 84	6	Private, clay.
Vineland street.	From North Beacon street.	Brighton.	12	48	293 09	136 66	25 55	455 30	6	Public, macadam.
Gordon avenue.	Between River and Hale streets.	Hyde Park.	12	1,528	5,141 05	1,685 78	122 64	6,949 47	6	Public, rock, macadam.
Homefield avenue.	Between Edgewater drive and River streets.	Hyde Park.	12	637	2,069 53	540 59	81 76	2,721 88 4 & 6	6	Public, gravel.
	Totals.		12	14,653	\$50,802 66	\$15,655 94	\$1,357 92	\$67,816 52		
Dudley street.	Between Blue Hill and Brook avenues.	Roxbury.	16	176	788 57	273 63	15 33	1,077 53	6	Public, granite block, gravel base.
Ashland street.	Between Brown and Hyde Park avenues.	West Roxbury.	16	875	3,901 50	1,853 27	97 09	5,851 86	8	Public, macadam.
	Totals.		16	1,051	\$4,690 07	\$2,126 90	\$112 42	\$6,929 39		
Perkins street.	Between Jamaica way and Prince street.	West Roxbury.	36	2,533	14,833 65	7,307 29	373 03	22,513 97	24	Public, macadam.

Average Monthly Heights, in Feet, Above Boston City Base to Which Water Rose at Different Stations.

1921.	SOUTHERN HIGH SERVICE.																		NORTHERN LOW SERVICE.	
	City Hall.		Engine House No. 24, Quincy and Warren Streets, Roxbury.		Engine House No. 20, Walnut Street, Neponset.		Engine House No. 19, Norfolk Street, Mattapan.		Engine House No. 28, Centre, near Green Street, Jamaica Plain.		Engine House No. 30, Bellevue Street, West Roxbury.		Engine House No. 15, Washington and Poplar Streets, Rosindale.		Engine House No. 20, Chestnut Hill Avenue, Brighton.		Engine House No. 48, Winthrop Street and Harvard Avenue, Hyde Park.		Engine House No. 32, Bunker Hill Street, Charlestown.	
	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.
January.....	246	230	237	226	238	226	232	225	234	229	245	235	245	236	252	245	247	237	164	159
February.....	247	232	242	229	240	227	235	229	233	229	245	237	245	238	255	248	248	238	165	158
March.....	247	231	244	230	241	228	237	227	235	231	245	237	246	238	254	246	250	239	165	159
April.....	247	232	244	231	238	228	236	226	239	231	246	238	247	239	252	245	250	238	165	161
May.....	248	232	244	230	240	228	235	225	238	230	246	237	246	237	251	245	250	238	165	157
June.....	248	230	243	227	237	225	236	222	235	227	246	236	246	237	251	243	248	234	167	160
July.....	247	233	242	229	237	227	233	224	232	227	245	237	245	238	251	245	246	235	166	160
August.....	247	231	243	228	235	224	235	223	235	226	245	238	245	238	254	246	247	235	167	160
September....	248	232	243	226	240	227	234	224	232	222	246	237	247	237	256	247	247	236	167	161
October.....	246	229	243	227	239	225	237	226	235	225	246	238	247	239	257	248	249	236	165	160
November.....	249	232	245	232	240	228	238	227	235	227	247	241	248	241	257	250	249	238	165	158
December.....	250	235	244	232	.....	.....	238	229	233	226	246	240	247	240	257	250	247	237	161	158

Average Monthly Heights, in Feet, Above Boston City Base to Which Water Rose at Different Stations.

1921.	SOUTHERN LOW SERVICE.																	
	Chestnut Hill Pumping Station, Brighton.		Engine House No. 34, Western Avenue, Brighton.		Boston Common.		Engine House No. 8, Salem Street, City Proper.		Engine House No. 7, East Street, City Proper.		Engine House No. 38, Congress and Faneuil Streets, South Boston.		Engine House No. 2, Fourth and O Streets, South Boston.		Water Service Yard, 710 Albany Street, South End.		Water Service Yard, Gibson Street, Dorchester.	
	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.	3 a. m.	9 a. m.
January.....	164	164	148	147	147	143	.....	.....	149	142	147	140	147	139	149	145	145	139
February.....	153	169	149	149	148	144	151	145	150	144	150	144	151	143	150	147	151	142
March.....	153	168	150	150	150	145	151	145	151	146	151	146	153	145	152	147	151	144
April.....	153	167	151	150	150	145	151	147	152	148	.....	.....	153	146	151	149	153	147
May.....	153	167	151	150	149	145	151	145	152	146	152	146	152	145	146	148	147	143
June.....	154	168	150	145	148	142	151	144	152	145	152	145	153	143	152	147	150	144
July.....	153	163	151	149	147	143	150	145	150	145	151	145	151	144	151	147	148	141
August.....	153	168	150	149	148	142	148	144	151	145	152	145	151	142	150	146	151	140
September....	153	168	151	148	147	140	152	150	151	143	152	144	151	142	150	145	152	139
October.....	153	167	150	147	148	142	151	145	152	145	152	145	152	142	152	145	152	142
November....	153	167	149	146	148	148	150	144	152	145	154	148	152	145	151	147	153	145
December....	153	167	149	147	148	141	149	143	150	144	151	144	150	142	153	147	151	142

Cost of Relocation of Main Pipe.

STREET.	Location.	District.	Size (Inch.)	Feet.	Cost of Department Material, etc.	Cost of Labor.	Cost of Inspection.	Total Cost.	Original Size (Inch.)	Remarks.
31 Hawley street.....	Raymond's light and power tunnel.	City Proper.	8	31	\$127 16	\$27 63	.....	\$154 79	8	Public, granite block.
Hartwell street.....	From Georgia street.....	Roxbury.	8	29	123 64	16 12	\$2 56	142 32	6	Public, macadam.
	Totals.....	.....	8	60	\$250 80	\$43 75	\$2 56	\$297 11		
Chauncy street.....	At Bedford street.....	City Proper.	12	49	\$666 79	\$325 67	.....	\$992 46	6	Public, granite block, gravel base.
Hawley street.....	Opposite No. 31.....	City Proper.	12	42	247 69	45 29	.....	292 98	6	Public, granite block.
Mt. Vernon street.....	At Charles River Embankment..	City Proper.	12	27	104 68	38 81	.....	143 49	12	Public, macadam.
Arlington street.....	Between Boylston and Providence streets.	City Proper.	12	33	259 35	17 50	.....	276 85	12	Public, wood block.
Arlington street.....	Across Boylston street.....	City Proper.	12	109	350 53	61 19	.....	411 72	12	Public, wood block.
Corey street.....	At Railroad street.....	West Roxbury.	12	28	131 51	55 69	.....	187 20	12	Public, macadam.
	Totals.....	.....	.....	288	\$1,760 55	\$544 15	.....	\$2,304 70		
Boylston street.....	At Arlington street.....	City Proper.	20	82	\$223 20	\$121 27	.....	\$344 47	20	Public, wood block.
Boylston street.....	At Berkeley street.....	City Proper.	20	96	782 72	.....	.....	782 72	12	Public, wood block.
Boylston street.....	At Berkeley street.....	City Proper.	12	104	.....	.....	.....	.....	12	Public, wood block.
	Totals.....	.....	.....	182	\$1,005 92	\$121 27	.....	\$1,127 19		
Tremont street.....	Over Boston & Albany Railroad Bridge.	City Proper.	24	82	\$1,666 01	\$1,058 07	.....	\$2,724 08	30	

WATERWORKS STATISTICS—CITY OF BOSTON.

FOR THE FISCAL YEAR ENDING JANUARY 31, 1922.

DISTRIBUTION.

Mains.

Kind of pipe: Cast iron, wrought iron.

Sizes: 2-inch to 48-inch.

Extended, miles: 2.27.

Sizes, enlarged, miles: 6.99.

Total miles now in use: 880.85.

Public hydrants added: 50.

Public hydrants now in use: 9,829.

Stop gates added: 93.

Stop gates now in use: 13,228.

Stop gates smaller than 4-inch: 27.

Number of blow-offs: 661.

Range of pressure on mains: 30 to 90 pounds.

*Services.*Kind of pipe and size, lead and lead lined: $\frac{1}{2}$ -inch to 2-inch cast iron.2 $\frac{1}{2}$ -inch to 12-inch, wrought iron and cement lined: $\frac{3}{4}$ -inch to 2-inch.

Extended, feet: 6,093.

Total miles now in use: 590.24.

Service taps added: 294.

Total service tops now in use: 109,012.

Stand pipes for street watering: 525.

Standpipes for street watering by electric cars: 30.

Table Showing Daily Consumption of Water in the City of Boston, Number of Services, Percentage of Services Metered, and Decrease in Daily Per Capita Consumption Since the Meter Law of 1907 Became Effective.

YEAR.	Number of Services in Boston.	Number of Meters in Boston.	Percentage of Services Metered.	Population of Boston.	Daily Consumption in Boston, (Gallons.)	Daily Per capita for Boston.	Population of Metropolitan District.	Daily Consumption of Metropolitan District, (Gallons.)	Daily Per capita for District.
1908.....	94,960	5,380	5.7	643,810	98,379,300	153	973,320	125,441,000	129
1909.....	96,132	12,048	12.5	659,110	94,029,900	143	997,760	119,119,100	119
1910.....	93,780	18,467	19.7	674,400	87,346,700	130	1,022,230	112,092,100	110
1911.....	95,037	25,206	26.5	688,520	85,571,500	124	1,046,630	109,994,800	105
1912.....	99,700	34,565	34.8	718,900	90,037,500	125	1,086,690	116,230,700	107
1913.....	101,100	41,168	40.7	735,098	79,390,600	108	1,104,263	103,847,700	94
1914.....	102,449	48,091	46.9	740,830	81,877,800	110	1,134,180	107,036,100	94
1915.....	103,980	54,458	52.3	745,680	77,651,800	114	1,160,750	101,941,500	88
1916.....	105,386	60,129	57.5	746,130	80,358,800	108	1,171,220	106,337,800	90
1917.....	105,352	* 63,071	59.9	746,680	82,073,200	110	1,181,240	110,032,300	93
1918.....	105,458	63,187	59.9	747,830	94,634,000	127	1,191,380	129,764,000	109
1919.....	108,568	64,078	59.0	747,780	89,652,400	120	1,201,730	120,593,500	100
1920.....	108,718	67,392	62.0	751,810	94,297,400	125	1,213,430	127,265,500	105
1921.....	109,012	70,688	64.8	766,800	85,609,200	112	1,239,740	117,407,400	95

* Estimated number of existing services not now in use, 16,900.

HIGH PRESSURE FIRE SERVICE.

Two pipe laying contracts awarded in 1920 were completed during the past year, one in Essex street, Chauncy street, Exeter place and Commercial street; the other for installation of necessary suction and force mains at pumping stations Nos. 1 and 2.

The length of mains laid during the year are as follows: 205 linear feet 12-inch pipe; 3,608 linear feet 16-inch pipe; 1,210 linear feet 20-inch pipe.

The total milage of the system is 11.6 with 310 hydrants installed thereon.

The completed system calls for a length of 19 miles.

The work of constructing two pumping stations and installing in each two pumping units was completed December 5, and on December 19, 1921, the stations were put in service under the control of the Fire Department.

Following is a description of the pumping equipment:

PUMPING STATION No. 1.

Located in a fireproof isolated area, in the basement of the Lincoln Power Station of the Boston Elevated Railway Company, corner of Commercial and Battery streets; fire hazard very slight.

Equipment includes two Worthington 3-stage double suction centrifugal pumps, each direct connected to a Westinghouse 750 horse power steam turbine of the horizontal impulse type, operating at 1,165 revolutions per minute, with steam pressure of 175 pounds; atmospheric exhaust.

Two 16-inch suction mains, both connecting with low service distribution system of city (pressure 50 to 60 pounds), one of them also connecting with high service distribution system (pressure 85 to 90 pounds). One 16-inch suction main, connecting with large intake conduit, supplying salt water from harbor to Boston Elevated Power Station for condensing purposes, provides an emergency salt water supply. Two 16-inch discharge mains, each equipped with a venturi meter, extend from the station to the high pressure fire distribution system. A centrifugal vacuum pump, with

75-gallon priming tank, driven by a 10 horse power, 220-volt, direct current motor, is provided to prime the fire pumps when suction is taken from salt water.

A vertical centrifugal single stage sump pump, driven by a 220-volt, direct current motor, takes care of any leakage, etc., within the station.

The water piping is of cast iron with flanged joints, each piece of pipe in force main being separately tested at a pressure of 600 pounds per square inch before being assembled. A 4-inch by-pass, equipped with the necessary check valves and meter, is provided between suction and discharge side of piping to insure the absence of air in the system and to provide means of measuring the leakage in the high pressure fire distribution system.

The principle control valves on the piping system are electrically operated by Dean control. Ross regulating valves are installed between the suction and discharge of each pump by means of which the pressures at the pumps are controlled from the operating board, upon which the necessary gauges and indicators are installed, and from which the valves in the piping system, the vacuum pump and the sump pump are operated.

The turbines are started by hand throttle. Steam is supplied through an 8-inch loop pipe, connecting to each end of steam header in the boiler room of the Boston Elevated Station, where a battery of twenty (20) Babcock and Wilcox boilers, with a total of 10,344 horse power, are located, eight to ten of these boilers being always in service.

At an acceptance test made on December 9, 1921, by the National Board of Fire Underwriters, Pump No. 1 discharged 3,100 gallons per minute at 301 pounds pressure and 4,676 gallons per minute at 201 pounds pressure. Pump No. 2 discharged 3,114 gallons per minute at 300 pounds pressure; 5,164 gallons per minute at 209 pounds pressure and 7,400 gallons per minute at 100 pounds pressure. The two pumps together discharged 6,580 gallons per minute at 292 pounds pressure and 10,266 gallons per minute at 201 pounds pressure. The above performance easily fulfilled the contract requirements.

PUMPING STATION No. 2.

Located in a fire proof building, constructed for the purpose, within the boiler room of the Third Station of

the Edison Electric Illuminating Company on Atlantic avenue, opposite Pearl street; fire hazard very slight.

The equipment includes two Worthington 4-stage single suction centrifugal pumps, each direct connected through semiflexible couplings, to Westinghouse 750 horse power 235 volt direct current shunt wound interpole motor with a speed range from 860 to 1,050 revolutions per minute.

Two 16-inch suction mains both connecting with Low Service Distribution System of city (pressure 50 to 60 pounds) one of them also connecting with High Service Distribution System of city (pressure 85 to 90 pounds). One 16-inch suction main, connecting with large intake conduit supplying condensing water for the Edison Station, provides an emergency salt water supply.

Two 16-inch discharge mains, each equipped with a Venturi meter, extend from the station to the High Pressure Fire Distribution System. Two centrifugal vacuum pumps with a 75-gallon priming tank, each driven by 10 horse power motor, are provided for priming the fire pumps when suction is taken from salt water. One vertical centrifugal single stage motor driven sump pump takes care of any leakage, etc. within the station.

The water piping is of cast iron with flanged joints, each piece of pipe in force main being separately tested at a pressure of 600 pounds per square inch before being assembled. A 2-inch by pass, equipped with the necessary check valves and meter, is provided between suction side and discharge side of piping to insure the absence of air in the system and to provide means of measuring the leakage in the High Pressure Fire Distribution System.

The principle control valves on the piping systems are electrically operated by Deane control. Ross regulating valves are installed between the suction and discharge of each pump by means of which the pressures at the pumps are controlled.

The switchboard consists of two separate units; one board, designed to handle the heavy starting and running current required for the main motor, contains the connections from the Edison power lines, the busbars and the secondary contactors for operating the motors. The other, or main control board, consists of four panels — one for each motor, one for the station auxiliaries, and one for the fire alarm. Each motor panel is

equipped with drum master switches for operating the main motor, control switches for motor operated valves, gauges to indicate suction and discharge pressure, ammeter to indicate amount of current required by motor and wattmeter to register total power required by motor.

In putting a pumping unit into service it is necessary to turn one, two or three master switches, depending upon which suction and discharge mains are to be operated; one master switch only is required to bring motor up to speed, the delivering of water and its pressure being determined by operation of a motor field rheostat and the Ross regulating valve; the control of the latter is through a hand valve immediately in front of each motor panel; the actual position of the regulating valve being shown at all times on a dial visible from the operating platform. Two Venturi meters which register the water pumped into each discharge main, are located immediately beside the control board.

The above arrangement makes it possible for one man to operate easily and quickly the entire equipment in the station. Under normal conditions fire pressure is available within forty seconds after an alarm is received.

In the event of failure of the fresh water suction supply, the pumps can be primed and ready for service with salt water, in less than three minutes time.

Power for operating the pumps is furnished through cables extending to the pump room from the main switchboard in the generating room of the Edison Third Station in which are located four 1,600 kilowatt and two 800 kilowatt direct current generators, and four 1,000 kilowatt and one 500 kilowatt motor generators. The direct current generators are operated by engines supplied with steam from a battery of nineteen (19) boilers of 8,400 horse power capacity, six to ten of the boilers being always under steam. The motor generators receive current at 6,600 volts alternating current from the main station of the Edison Company in South Boston, delivering it at 250-volts direct current. Three underground transmission lines extend, over two separate routes, to the Edison Third Station, any two of which have sufficient capacity to operate the entire motor generator installation in the station. Ten direct current tie lines from seven sub-stations in the city are available, on an emergency, to supply, 1,500 to 1,800

killowatt to the Edison Third Station. In addition, two storage batteries with a combined capacity of 9,470 ampere hours, sufficient to run both fire pumps for a period of approximately two hours, are available at the Edison Third Station.

At a test recently made by the National Board of Fire Underwriters, Pump No. 1 discharged 3,141 gallons per minute at 298 pounds pressure and 4,413 gallons per minute at 202 pounds pressure. Pump No. 2 discharged 3,000 gallons per minute at 300 pounds pressure and 4,407 gallons per minute at 200 pounds pressure. The two pumps operating together discharged 6,580 gallons per minute at 292 pounds pressure. The above performance easily fulfilled the contract requirements.

HIGH PRESSURE FIRE SERVICE.

FINANCIAL STATEMENT FOR THE YEAR ENDING JANUARY 31, 1922.

Appropriations to January 31, 1922	\$1,420,000 00
Expended to January 31, 1921	\$1,020,980 62
Expenditures during the year 1921-22:	
Engineering	\$5,936 24
Yard	1,791 31
Tools and repairs	68 56
Construction of distribution system	116,298 58
Stock	21,813 51
Pumping Station No. 1, building (material and construction)	17,133 48
Pumping Station No. 1, equipment and installation	69,415 15
Pumping Station No. 2, building (material and construction)	27,956 18
Pumping Station No. 2, equipment and installation	61,840 92
Total expenditures, 1921-22	322,824 41
Total expenditures to January 31, 1922	1,343,805 03
Unexpended balance January 31, 1922	<u>\$76,194 97</u>

APPENDIX F.

REPORT OF THE BOSTON AND CAMBRIDGE
BRIDGE COMMISSION.

BOSTON, February 1, 1922.

To the Honorable the Mayor:

SIR,—As commissioner for the City of Boston I respectfully submit herewith the annual report of the Boston and Cambridge Bridge Commission for the year ending January 31, 1922.

This commission is composed of two members, one appointed by the Mayor of the City of Boston and the other by the mayor of the city of Cambridge, under provisions of chapter 467, Acts of 1898.

The commission has charge of the maintenance of the following-named bridges connecting Boston and Cambridge Anderson, Brookline Street, Cambridge, Harvard, Prison Point, River Street and Western Avenue to Cambridge.

As there is no separate appropriation made for the City of Boston's portion of the expenses of this commission, the same is taken from the appropriation for the Bridge and Ferry Division, Bridge Service. The amount expended during the fiscal year ending January 31, 1922, was \$27,999.77.

BROOKLINE STREET BRIDGE (OVER CHARLES RIVER AT
COTTAGE FARM).

Patching was done on the roadway surface and under plank of same and on the sidewalk.

HARVARD BRIDGE.

The draw span of this bridge has been sheathed twice and considerable repairs made to the under planking. The roadway has been nailed repeatedly and under plank respiked. In certain places the stringers have been broken and have been replaced. Sidewalk repairs have been made.

PRISON POINT BRIDGE.

The bridge was sheathed once and repairs made to the under planking and stringers.

RIVER STREET BRIDGE AND WESTON AVENUE BRIDGE
OVER CHARLES RIVER.

These bridges were each sheathed once and some rotten under plank in each bridge was replaced.

Of the above bridges Brookline Street Bridge, River Street Bridge and Western Avenue Bridge are in deplorable condition and should be rebuilt.

As a step toward this reconstruction, chapter 497 of the Acts of 1921 was passed, providing for the reconstruction of these bridges.

Respectfully submitted,

THOMAS F. SULLIVAN,
Commissioner for the City of Boston.

Expenditures for the Year 1921-22.
(Being the Portion Paid by the City of Boston — Which is One Half — of the Total Expenditures.)

	Administration.	Anderson Bridge.	Cambridge Street-River Street Bridge.	Cambridge Bridge.	Essex Street-Brookline Street Bridge.	Harvard Bridge.	Prison Point Bridge.	Western Avenue Bridge to Cambridge.	Totals.
Salaries.....	\$250 00	.....	\$4,826 63	\$2,529 60	.....	\$4,869 76	\$4,869 78	.....	\$17,345 77
Inspection.....	.....	.....	106 00	.....	\$4 00	318 00	154 00	\$24 00	606 00
Repairs.....	.....	.....	655 22	433 62	28 89	2,560 14	1,148 31	160 87	4,987 05
Lumber.....	.....	.....	354 62	.....	.....	312 51	616 21	83 50	1,366 84
Light.....	.....	\$303 02	25 53	1,410 11	188 28	881 60	9 65	25 53	2,843 72
Fuel.....	.....	.....	76 00	.....	.....	88 20	47 63	.....	211 83
Supplies.....	.....	5 64	60 81	25 98	9 05	107 54	130 84	5 75	345 61
Removing sweepings.....	.....	.....	.....	.....	.....	123 50	.....	.....	123 50
Printing and stationery.....	62 42	.....	.....	.....	.....	.....	.....	.....	62 42
Telephone and traveling expenses.....	100 63	.....	.....	.....	.....	.....	.....	.....	100 63
Advertising.....	6 40	.....	.....	.....	.....	.....	.....	.....	6 40
Totals.....	\$419 45	\$308 66	\$6,104 81	\$4,399 31	\$230 22	\$9,261 25	\$6,976 42	\$299 65	\$27,999 77

Monthly Summary of Draw Openings — Boston and Cambridge Bridges, February 1, 1921, to January 31, 1922.

	CAMBRIDGE STREET- RIVER STREET BRIDGE.			HARVARD BRIDGE.			PRISON POINT BRIDGE.			WESTERN AVENUE BRIDGE TO CAMBRIDGE.		
	Vessels.	Cargoes.	Openings.	Vessels.	Cargoes.	Openings.	Vessels.	Cargoes.	Openings.	Vessels.	Cargoes.	Openings.
1921												
February.....							6	1	4			
March.....				10		8	6	1	4			
April.....				2		1	6	1	4			
May.....												
June.....				7		6	12	2	8			
July.....	4		4				14	2	10	2		2
August.....	2		2	10	1	6						
September.....				11		10	6	1	4			
October.....	1		1	16		16	6	1	4	1		1
November.....	2		1	3		2	6	1	4	2		1
December.....				5		4	6	1	4			
1922												
January.....							10	1	7			
Totals.....	9		8	64	1	53	78	12	53	5		4

Annual Summary of Draw Openings, Boston and Cambridge Bridges, February 1, 1921, to January 31, 1922.

BRIDGE.	TUGS.			BARGES.			ALL OTHERS.			TOTAL VESSELS.			CARGOES.	Openings.
	Day.	Night.	Total.	Day.	Night.	Total.	Day.	Night.	Total.	Day.	Night.	Total.		
Cambridge Street-River Street.....	.....	.....	.....	.....	.....	.....	7	2	9	7	2	9	4	8
Harvard.....	56	.....	56	3	.....	3	5	.....	5	64	.....	64	1	53
Prison Point.....	54	.....	54	24	.....	24	.....	.....	.....	78	.....	78	12	53
Western Avenue to Cambridge .....	.....	.....	.....	.....	.....	.....	4	1	5	4	1	5	.....	4
Totals.....	110	.....	110	27	.....	27	16	3	19	153	3	156	17	118

DOCUMENT NUMBERS OF ANNUAL REPORTS OF THE
PUBLIC WORKS DEPARTMENT.

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report.....	1911	1912	29
Annual report.....	1912	1913	29
Annual report.....	1913	1914	26
Annual report.....	1914	1915	26
Annual report.....	1915	1916	26
Annual report.....	1916	1917	26
Annual report.....	1917	1918	26
Annual report.....	1918	1919	26
Annual report.....	1919	1920	26
Annual report.....	1920	1921	22
Annual report.....	1921	1922	22

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